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January 11, 2005

Mr. Don Pettit  
Oregon Department of Environmental Quality  
2020 SW Fourth Ave., Suite 400  
Portland, OR 97201

**Re: Groundwater Monitoring/Project Status Update Report  
Third Quarter 2004  
Kinder Morgan Liquid Terminals, LLC  
Linnton Terminal  
Portland, Oregon  
DEQ No. WPMVC-WMCVC-NWR-00-17  
Delta Project No. PTKM-001-8**

Dear Mr. Pettit:

Delta Environmental Consultants, Inc. (Delta) has prepared this groundwater monitoring/project status update report on behalf of Kinder Morgan Liquid Terminals, LLC (KMLT) for the KMLT Linnton Terminal located at 11400 NW St. Helens Road in Portland, Oregon (Figure 1). Quarterly groundwater monitoring is currently being conducted at the site in accordance with the Remedial Investigation (RI) Work Plan dated February 2002. Field procedures were performed in accordance with Delta's standard operating procedures for quality assurance and quality control (QA/QC).

## SCOPE OF WORK

The following scope of work was conducted as part of the third quarter 2004 groundwater monitoring and sampling event and the installation and operation of the Interim Remedial Action Measures (IRAM) system.

- On July 26 and 28, 2004, 33 groundwater monitoring wells and piezometers were monitored, and 14 wells were sampled.
- Monthly separate phase hydrocarbon (SPH) recovery was performed on each well containing SPH that is not included in the IRAM Area Containment system during the reporting period.

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The logo for Inogen Environmental Alliance. It features a stylized 'X' shape composed of two intersecting diagonal lines, with the word "Inogen" in a bold, sans-serif font to its right. Below "Inogen", the words "Environmental Alliance" are written in a smaller, all-caps sans-serif font.

- Checked absorbent booms weekly during July, August and September, 2004.
- IRAM Area Containment system was started in July (2004).
- Operation and Maintenance (O&M) of IRAM System.

## METHODS AND PROCEDURES

Groundwater monitoring field activities conducted on July 26 and 28, 2004 consisted of collecting water level measurements in Wells MW-1 through MW-24, P-1 through P-4 and RW-1 through RW-5 as well as measuring parameters and collecting samples from Wells MW-4, MW-7, MW-8, MW-9, MW-12 through MW-18, MW-22, MW-23 and MW-24. The approximate site boundaries, site structures, and the approximate locations of the monitoring wells are presented in Figure 2.

The parameters measured in the wells consisted of water level measurements, pH, specific conductance and temperature. The static water levels were measured in Wells MW-1, MW-2, MW-3, MW-4, MW-7 through MW-10, MW-12 through MW-24, P-1 through P-4, RW-1, and RW-3 through RW-5 on July 26, 2004. A depth-to-water measurement could not be attained from Well MW-11 due to the fouling of the probe by the relatively high viscosity SPH layer in that well. Wells MW-2, RW-1 and RW-2 were not gauged or sampled due to limited access caused by construction of the remedial system.

Water level measurements were obtained by slowly lowering an electronic water level indicator into the well until the instrument indicated that the groundwater surface had been encountered. The measurement was made from a location permanently marked on the top of the casing to within the nearest 0.01 foot. If SPH was present in any of the monitoring wells, the thickness of the layer was measured and recorded. Each water level measurement was repeated at least once to verify the accuracy of the initial measurement.

All measurements were recorded on field sampling forms (Attachment A). Prior to collecting groundwater samples, each monitoring well to be sampled was purged of at least three casing volumes of water. All 13 wells sampled were purged using clean, disposable bailers and new nylon cord or using a centrifugal pump with disposal tubing. Prior to sampling, the wells were allowed to recover to approximately 80% or more of static water level. A total volume of approximately 77 gallons of water was purged from the wells.

After purging each monitoring well, groundwater samples were collected using new disposable bailers. The water samples were placed in laboratory-prepared containers and each sample was appropriately labeled so as to identify the sample number, project name, facility number, the date and time of sample collection and the sampler's name. Each sample was immediately placed in a chilled cooler for storage, and samples were transported to the laboratory using strict chain-of-custody protocols.

## ANALYTICAL METHODS

Collected groundwater samples were submitted to North Creek Analytical of Beaverton, Oregon on July 27 and 28, 2004 and analyzed for the following:

- Gasoline range hydrocarbons (TPH-Gx) by NW TPH-Gx Method.
- Diesel and heavy oil range hydrocarbons (TPH-Dx) by NW TPH-Dx Method.
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by Environmental Protection Agency (EPA) Method 8021B.
- Polyaromatic hydrocarbons (PAHs) by EPA Method 8270M-SIM.
- Total metals by EPA 6000/7000 Series Methods.

## RESULTS OF QUARTERLY MONITORING

### Groundwater Elevation and Flow

Depth to groundwater in the measured wells ranged from 12.17 feet below top of casing in Well MW-16 to 23.46 feet below top of casing in Well MW-18. SPH was measured in ten wells during the third quarter monitoring event (MW-1, MW-3, MW-10, MW-11, MW-19, MW-20, MW-21 and RW-3 through RW-5). SPH ranged from 0.1 foot in Well MW-1 to 7.10 feet in Well RW-3. The current and historic groundwater elevation data have been summarized in Table 1.

Based on the groundwater level measurements taken during this monitoring event, the groundwater flow direction appears to be generally to the northeast, toward the Willamette River. Generally, the groundwater flow direction is consistent with those of past monitoring events. Figure 2 illustrates the approximate water level elevation contours and gradient based upon measurements collected on July 26, 2004.

### Groundwater Analytical Results

Benzene was detected above the laboratory method reporting limit (MRL) in six wells at concentrations ranging from 1.86 micrograms per liter ( $\mu\text{g}/\text{L}$ ) in Well MW-13 to 792  $\mu\text{g}/\text{L}$  in Well MW-9. Toluene, ethylbenzene, and xylene concentrations are generally consistent with the past monitoring events.

PAHs were detected above the laboratory MRL in nine wells at concentrations ranging from 0.104  $\mu\text{g}/\text{L}$  of fluorene in Well MW-6 to 58.5  $\mu\text{g}/\text{L}$  of acenaphthene in Well MW-8. Detected PAH concentrations are generally similar to historical analytical results. A summary of the PAH analytical results is presented in Table 3.

Concentrations of total petroleum hydrocarbons (TPH) as gasoline were detected above laboratory MRLs in seven of the 13 sampled wells, ranging from 618  $\mu\text{g}/\text{L}$  in MW-8 to 4,120  $\mu\text{g}/\text{L}$  in Well MW-10. Concentrations of TPH as diesel were detected above laboratory MRLs in eight of the sampled wells, ranging from 903  $\mu\text{g}/\text{L}$  in Well MW-9 to 146,000  $\mu\text{g}/\text{L}$  in Well MW-10. TPH as heavy oil was detected above the laboratory MRL

in a sample from one of the wells sampled, MW-16 at a concentration of 21,700 µg/L. The laboratory analytical results for TPH are presented in Table 2.

Concentrations of total metals were detected above the laboratory MRL in all 14 sampled wells. Concentrations ranged from 0.001 mg/L of selenium in Well MW-7 to 0.349 mg/L of barium in Well MW-14. The total metal concentrations were typical of previous sampling events. The analytical results for metals are presented in Table 4.

Based on a review of the laboratory reports, it appears that the submitted water samples were analyzed within the specified holding times, and that the appropriate QA/QC procedures were followed during analysis. A summary of the laboratory analytical results is presented in Tables 2, 3 and 4. A complete copy of the laboratory report and chain-of-custody documentation is included in Attachment B.

### **Monthly SPH Recovery**

Manual bailing of SPH was conducted at the site once a month during July, August and September 2004. SPH bailing was conducted on the following wells: MW-1, MW-2, MW-3, MW-10, MW-11, MW-20, and MW-21. A total of 3 gallons of SPH were recovered during the third quarter of 2004 by bailing. Table 1 shows the amount of SPH bailed from each well over the three-month period (third quarter).

### **IRAM System Startup and O&M Activities**

The IRAM area containment system was constructed at the site during April through July 2004. The IRAM system extracts groundwater and SPH from five previously installed recovery wells (RW-1 through RW-5) using a two-pump system configuration. In addition, SPH is continuously skimmed off the groundwater surface in Wells MW-2 and MW-19 using a SPH-only pump. Groundwater extraction from the five recovery wells is accomplished using electric submersible pumps. SPH is recovered in each of the five recovery wells and the two monitoring wells (MW-2 and MW-19) using pneumatic pumps equipped with floating intake screens. The SPH is pumped to a holding tank prior to transport to a product recycler. The extracted groundwater is first pumped through a 40-cubic-foot sand filter to remove particulates that may clog the carbon vessels. The effluent from the sand filter is pumped through two 2,000 lb carbon vessels prior to discharge to the Willamette River in accordance with existing NPDES Permit No. ORG 910059.

On July 26, 2004, Delta initiated continuous operation of the IRAM area containment system. During the first week of operation, daily O&M site visits were performed. Currently, O&M site visits are conducted twice a week. During these visits, the system operation is monitored and the system components are adjusted or maintained as needed. System adjustments and maintenance checks involve tasks such as cleaning pump control sensors, removing collected SPH from the storage tank, backflushing the carbon vessels and sand filter, cleaning the batch tank and controls, checking the operation of the groundwater and SPH pumps, adjusting flow rates, and compliance sampling. Measurements and readings recorded during each of the site visits are as follows:

- Pressure readings at the manifold, sand filter, and both carbon vessels.
- Flow totals for each of the recovery wells.
- Transducer readings (Liquid level in each well).
- Operating electrical frequency.
- SPH level in the product storage tank.

In addition, the condition of the hard boom and absorbent booms are checked and noted in the field notes. The field technician also checks for the presence or absence of a sheen within the boomed area.

This information is used to evaluate the performance of the system. During the third quarter of 2004 (the first quarter the IRAM system was operated), approximately 585 gallons of SPH have been recovered from the subsurface. In addition, the liquid level data collected during each visits indicate that the pumping has lower the groundwater level immediately adjacent to the recovery wells. Delta will continue to monitor the liquid levels during the fourth quarter of 2004 and will adjust the flow rates of the pumps to increase the groundwater capture zone.

### **ACTIVITIES SCHEDULED FOR THE FOURTH QUARTER OF 2004**

- Perform monthly SPH removal from wells that have historically contained SPH.
- Sample selected monitoring wells during the October 2004 sampling event (fourth quarter event).
- Perform weekly inspections of the containment booms in the seep area.
- Continue O&M of the IRAM area containment system.

### **CONCLUSIONS**

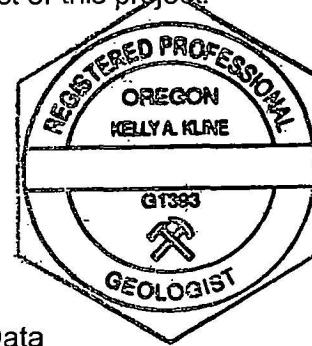
Groundwater will continue to be monitored on a quarterly basis. The next sampling event will be conducted during the fourth quarter 2004. Delta will continue operation and maintenance of the IRAM system. The system has been effectively removing SPH from the subsurface. Delta will continue to monitor and adjust the system to maximize the recovery of groundwater and SPH.

Please contact Mr. Steve Osborn of KMLT at (707) 249-1633 or the undersigned if you have any questions regarding this report or any other aspect of this project.

Sincerely,  
**Delta Environmental Consultants, Inc.**



Kelly A. Kline, R.G.  
Senior Geologist



Attachments: Table 1 - Groundwater Elevation and SPH Data  
Table 2 - Groundwater Sample Analytical Results- TPH, BTEX-N  
Table 3 - Groundwater Sample Analytical Results- PAHs  
Table 4 - Groundwater Sample Analytical Results- Total Metals  
Figure 1 - Site Location Map  
Figure 2 - Groundwater Elevation Contours and SPH Thickness

Attachment A - Field Forms  
Attachment B - Certified Analytical Reports and Chain-of-Custody Documentation

cc: Mr. Steve Osborn, KMEP  
Mr. Gregg Lies, KMEP (electronic copy)  
Wally Stevenson, KMEP  
Ms. Esther Lee, KMEP (file copy)

**TABLE 1**  
**GROUNDWATER ELEVATION AND SPH RECOVERY DATA**  
Kinder Morgan Liquid Terminals LLC  
Linnton Terminal  
Portland, Oregon

Well Identification (TOC)	Date Gauged	Depth to Water (ft)	Depth to SPH (ft)	SPH Thickness (ft)	Groundwater Elevation <sup>1</sup> (ft)	Recovered by Quarter (gallons)
MW-1 (27.98)	02/01/02	13.34	13.34	sheen	14.64	-
	04/24/02	13.26	13.26	sheen	14.72	-
	07/29/02	15.82	15.80	0.02	12.18	0.41
	10/29/02	18.41	18.40	0.01	9.58	-
	11/26/02*	17.91	17.81	0.10	10.15	-
	12/30/02	15.63	15.63	sheen	12.35	0.56
	01/28/03	15.15	NP	0.00	12.83	0.00
	04/29/03	13.15	NP	0.00	14.83	0.00
	07/29/03 <sup>2</sup>	16.31	16.31	sheen	11.67	0.60
	10/28/03	17.35	17.18	0.17	10.77	-
	01/29/04	13.30	13.20	0.10	14.76	1.80
	04/28/04	15.84	15.73	0.11	12.23	0.30
	07/26/04	17.33	17.18	0.15	10.77	0.50
MW-2 (28.47)	01/29/02	14.27	13.60	0.67	14.74	2.50
	04/24/02	13.96	13.37	0.59	14.98	0.55
	07/29/02	16.50	16.16	0.34	12.24	1.20
	10/29/02	18.93	18.92	0.01	9.55	1.30
	11/26/02*	18.82	18.52	0.30	9.89	-
	12/30/02	16.81	16.33	0.48	12.04	-
	01/28/03	16.04	15.70	0.34	12.70	0.65
	04/29/03	13.81	13.27	0.54	15.09	1.10
	07/29/03	17.23	16.92	0.31	11.49	5.00
	10/28/03	19.53	17.58	1.95	10.50	-
	01/29/04	14.48	13.31	1.17	14.93	4.20
	07/26/04	15.34	15.05	0.29	13.36	0.20
MW-3 (28.97)	01/29/02	13.04	12.86	0.18	16.07	0.25
	04/24/02	13.11	13.00	0.11	15.95	0.40
	07/29/02	14.69	14.42	0.27	14.50	0.55
	10/29/02	16.11	NP	Sheen	12.86	0.51
	11/26/02*	16.08	15.72	0.36	13.18	-
	01/28/03	14.15	14.07	0.08	14.88	0.35
	04/29/03	12.75	12.71	0.04	16.25	0.45
	07/29/03	15.03	14.83	0.20	14.10	1.05
	10/28/03	15.58	15.51	0.07	13.45	-
	01/29/04	12.87	12.84	0.03	16.12	0.20
	04/28/04	14.05	14.00	0.05	14.46	0.25
	07/26/04	15.24	15.14	0.10	13.31	0.20
MW-4 (32.88)	02/01/02	17.74	NP	0.00	15.14	-
	04/24/02	17.49	NP	0.00	15.39	-
	07/29/02	20.19	NP	0.00	12.69	-
	10/29/02	22.72	NP	0.00	10.16	-
	01/28/03	19.82	NP	0.00	13.06	-
	04/29/03	17.29	NP	0.00	15.59	-
	07/29/03	20.54	NP	0.00	12.34	-
	10/28/03	21.67	NP	0.00	11.21	-
	01/29/04	17.71	NP	0.00	15.17	-
	04/28/04	20.21	NP	0.00	12.67	-
	07/26/04	21.74	NP	0.00	11.14	-

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Kinder Morgan Liquid Terminals LLC  
Linniton Terminal  
Portland, Oregon

Well Identification (TOC)	Date Gauged	Depth to Water (ft)	Depth to SPH (ft)	SPH Thickness (ft)	Groundwater Elevation <sup>1</sup> (ft)	Recovered by Quarter (gallons)
MW-5 (40.08)	01/31/02	21.73	NP	0.00	18.35	-
	04/24/02	21.76	NP	0.00	18.32	-
	07/29/02	23.87	NP	0.00	16.21	-
	10/29/02	DRY	NP	0.00	DRY	-
	01/28/03	23.81	NP	0.00	16.27	-
	04/29/03	20.95	NP	0.00	19.13	-
	07/29/03	24.46	NP	0.00	15.62	-
	10/28/03	DRY	NP	0.00	DRY	-
	01/29/04	21.91	NP	0.00	18.17	-
	04/28/04	23.21	NP	0.00	16.87	-
MW-6 (36.93)	07/26/04	Dry	NP	0.00	-	-
	02/01/02	16.77	NP	0.00	20.16	-
	04/24/02	17.82	NP	0.00	19.11	-
	07/29/02	20.85	NP	0.00	16.08	-
	10/29/02	21.51	NP	0.00	15.42	-
	01/28/03	19.72	NP	0.00	17.21	-
	04/29/03	15.88	NP	0.00	21.05	-
	07/29/03	DRY	NP	0.00	DRY	-
	10/28/03	21.61	NP	0.00	15.32	-
	01/29/04	16.59	NP	0.00	20.34	-
MW-7 (32.26)	04/28/04	19.72	NP	0.00	17.21	-
	07/26/04	Dry	NP	0.00	-	-
	01/31/02	17.74	NP	0.00	14.52	-
	04/24/02	17.81	NP	0.00	14.45	-
	07/29/02	20.06	NP	0.00	12.20	-
	10/29/02	22.40	NP	0.00	9.86	-
	01/28/03	19.02	NP	0.00	13.24	-
	04/29/03	16.23	NP	0.00	16.03	-
	07/29/03	20.52	NP	0.00	11.74	-
	10/28/03	21.41	NP	0.00	10.85	-
MW-8 (30.06)	01/29/04	16.49	NP	0.00	15.77	-
	04/28/04	19.78	NP	0.00	12.48	-
	07/26/04	21.30	NP	0.00	10.96	-
	02/01/02	17.01	NP	0.00	13.05	-
	04/24/02	16.58	NP	0.00	13.48	-
	07/29/02	19.32	NP	0.00	10.74	-
	10/29/02	20.83	NP	0.00	9.23	-
	01/28/03	18.47	NP	0.00	11.59	-
	04/29/03	16.93	NP	0.00	13.13	-
	07/29/03	20.06	NP	0.00	10.00	-
	10/28/03	20.43	NP	0.00	9.63	-
	01/29/04	17.00	NP	0.00	13.06	-
	04/28/04	19.59	NP	0.00	10.47	-
	07/26/04	20.31	NP	0.00	9.75	-

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Well Identification (TOC)	Date Gauged	Depth to Water (ft)	Depth to SPH (ft)	SPH Thickness (ft)	Groundwater Elevation <sup>1</sup> (ft)	Recovered by Quarter (gallons)	SPH
MW-9 (30.45)	02/01/02	15.25	NP	0.00	15.20	-	
	04/24/02	15.49	NP	0.00	14.96	-	
	07/29/02	16.71	NP	0.00	13.74	-	
	10/29/02	18.77	NP	0.00	11.68	-	
	01/28/03	16.35	NP	0.00	14.10	-	
	04/29/03	14.31	NP	0.00	16.14	-	
	07/29/03	17.55	NP	0.00	12.90	-	
	10/28/03	18.44	NP	0.00	12.01	-	
	01/29/04	14.67	NP	0.00	15.78	-	
	04/28/04	16.59	NP	0.00	13.86	-	
	07/26/04	17.91	NP	0.00	12.54	-	
MW-10 (30.32)	02/01/02	11.84	NP	0.00	18.48	-	
	04/24/02	14.00	NP	0.00	16.32	-	
	07/29/02	18.08	17.03	1.05	13.08	0.50	
	10/29/02	20.86	20.72	0.14	9.57	0.13	
	11/26/02*	19.82	19.81	0.01	10.51	-	
	01/28/03	13.84	13.61	0.23	16.66	0.20	
	04/29/03	14.36	NP	0.00	15.96	0.01	
	07/29/03	18.51	NP	0.00	11.81	0.01	
	10/28/03	18.28	NP	0.00	12.04	-	
	01/29/04	12.59	12.28	0.31	17.98	0.40	
	04/28/04	16.51	16.51	Sheen	11.96	0.10	
	07/26/04	19.55	19.55	Sheen	10.77	0.30	
MW-11 (35.03)	01/29/02	19.06	NP	0.00	15.97	0.17	
	04/24/02	18.91	18.48	0.43	16.46	0.25	
	07/29/02	22.02	20.75	1.27	14.03	0.95	
	10/29/02	25.50	23.20	2.30	11.37	1.95	
	11/26/02*	25.10	23.05	2.05	11.57	-	
	01/28/03	21.00	20.65	0.35	14.31	0.45	
	04/29/03	20.06	18.55	1.51	16.18	0.60	
	07/29/03	-	21.15	>3.0	-	0.65	
	10/28/03	-	22.30	-	-	-	
	01/29/04	-	18.99	-	-	0.40	
	04/28/04	-	19.42	-	-	2.35	
	07/26/04	-	21.41	-	-	0.95	
MW-12 (34.03)	01/31/02	14.85	NP	0.00	19.18	-	
	04/24/02	15.32	NP	0.00	18.71	-	
	07/29/02	16.77	NP	0.00	17.26	-	
	10/29/02	17.99	NP	0.00	16.04	-	
	01/28/03	16.21	NP	0.00	17.82	-	
	04/29/03	14.99	NP	0.00	19.04	-	
	07/29/03	16.56	NP	0.00	17.47	-	
	10/28/03	17.61	17.60	0.01	16.43	-	
	01/29/04	14.98	NP	0.00	19.05	-	
	04/28/04	15.76	NP	0.00	18.27	-	
	07/26/04	16.97	NP	0.00	17.06	-	

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Well Identification (TOC)	Date Gauged	Depth to Water (ft)	Depth to SPH (ft)	SPH Thickness (ft)	Groundwater Elevation <sup>1</sup> (ft)	Recovered by Quarter (gallons)
MW-13 (35.81)	01/31/02	17.67	NP	0.00	18.14	-
	04/24/02	18.35	NP	0.00	17.46	-
	07/29/02	19.35	NP	0.00	16.46	-
	10/29/02	25.42	NP	0.00	10.39	-
	01/28/03	20.52	NP	0.00	15.29	-
	04/29/03	17.41	NP	0.00	18.40	-
	07/29/03	21.47	NP	0.00	14.34	-
	10/28/03	24.25	NP	0.00	11.56	-
	01/29/04	17.97	NP	0.00	17.84	-
	04/28/04	20.22	NP	0.00	15.59	-
MW-14 (36.54)	01/31/02	17.71	NP	0.00	18.83	-
	04/24/02	18.42	NP	0.00	18.12	-
	07/29/02	21.47	NP	0.00	15.07	-
	10/29/02	23.99	NP	0.00	12.55	-
	01/28/03	20.62	NP	0.00	15.92	-
	04/29/03	16.91	NP	0.00	19.63	-
	07/29/03	22.26	NP	0.00	14.28	-
	10/28/03	23.68	NP	0.00	12.86	-
	01/29/04	17.79	NP	0.00	18.75	-
	04/28/04	19.94	NP	0.00	16.60	-
MW-15 (37.15)	01/31/02	15.12	NP	0.00	22.03	-
	04/24/02	16.13	NP	0.00	21.02	-
	07/29/02	19.93	NP	0.00	17.22	-
	10/29/02	22.59	NP	0.00	14.56	-
	01/28/03	18.26	NP	0.00	18.89	-
	04/29/03	14.28	NP	0.00	22.87	-
	07/29/03	20.63	NP	0.00	16.52	-
	10/28/03	22.41	NP	0.00	14.74	-
	01/29/04	14.80	NP	0.00	22.35	-
	04/28/04	18.42	NP	0.00	18.73	-
MW-16 (38.95)	01/31/02	8.91	NP	0.00	30.04	-
	04/24/02	11.04	NP	0.00	27.91	-
	07/29/02	11.93	NP	0.00	27.02	-
	10/29/02	12.85	12.75	0.10	26.18	0.11
	11/26/02*	12.05	12.00	0.05	26.94	-
	01/28/03	10.11	NP	0.00	28.84	-
	04/29/03	9.85	NP	0.00	29.10	-
	07/29/03	12.14	NP	0.00	26.81	-
	10/28/03	11.83	NP	0.00	27.12	-
	01/29/04	9.23	NP	0.00	29.72	-
	04/28/04	11.12	NP	0.00	27.83	-
	07/26/04	12.17	12.17	Sheen	26.78	-

**TABLE 1**  
**GROUNDWATER ELEVATION AND SPH RECOVERY DATA**  
Kinder Morgan Liquid Terminals LLC  
Linton Terminal  
Portland, Oregon

Well Identification (TOC)	Date Gauged	Depth to Water (ft)	Depth to SPH (ft)	SPH Thickness (ft)	Groundwater Elevation <sup>1</sup> (ft)	Recovered by Quarter (gallons)
MW-17 (36.57)	01/31/02	16.93	NP	0.00	19.64	-
	04/24/02	17.83	NP	0.00	18.74	-
	07/29/02	20.83	NP	0.00	15.74	-
	10/29/02	23.38	NP	0.00	13.19	-
	01/28/03	19.87	NP	0.00	16.70	-
	04/29/03	16.04	NP	0.00	20.53	-
	07/29/03	21.59	NP	0.00	14.98	-
	10/28/03	23.15	NP	0.00	13.42	-
	01/29/04	16.16	NP	0.00	20.41	-
	04/28/04	19.80	NP	0.00	16.77	-
MW-18 (36.66)	07/26/04	22.08	NP	0.00	14.49	-
	04/24/02	19.41	NP	0.00	17.25	-
	07/30/02	22.21	NP	0.00	14.45	-
	10/29/02	24.71	NP	0.00	11.95	-
	01/28/03	21.20	NP	0.00	15.46	-
	04/29/03	17.85	NP	0.00	18.81	-
	07/29/03	23.02	NP	0.00	13.64	-
	10/28/03	24.28	NP	0.00	12.38	-
	01/29/04	18.45	NP	0.00	18.21	-
	04/28/04	21.51	NP	0.00	15.15	-
MW-19 (30.34)	07/26/04	23.46	NP	0.00	13.20	-
	04/29/03	14.88	14.80	0.08	15.52	3.00
	07/29/03	19.75	17.94	1.81	12.04	8.50
	10/28/03	20.08	18.88	1.20	11.22	-
	01/29/04	13.71	13.47	0.24	16.82	1.65
	04/28/04	18.65	17.48	0.24	11.88	-
	07/26/04	16.70	16.44	0.26	13.85	IRAM Sys
	04/29/03	13.42	NP	0.00	16.83	-
	07/29/03	18.26	NP	0.00	11.99	-
	10/28/03	19.60	19.49	0.11	10.74	-
MW-20 (30.25)	01/29/04	13.75	12.42	1.33	17.56	4.75
	04/28/04	16.51	16.01	0.50	12.36	-
	07/26/04	18.65	18.32	0.33	10.08	0.60
	04/29/03	8.12	NP	0.00	22.50	-
	07/29/03	17.02	NP	0.00	13.60	-
MW-21 (30.62)	10/28/03	18.62	18.36	0.26	12.21	-
	01/29/04	9.98	9.78	0.20	20.80	1.00
	04/28/04	15.72	15.67	0.05	12.79	0.10
	07/26/04	17.84	17.83	0.01	10.64	0.20
	04/29/03	15.61	NP	0.00	14.58	-
MW-22 (30.19)	07/29/03	19.75	NP	0.00	10.44	-
	10/28/03	20.33	NP	0.00	9.86	-
	01/29/04	14.88	NP	0.00	15.31	-
	04/28/04	18.69	NP	0.00	11.50	0.05
	07/26/04	20.14	NP	0.00	10.05	-

**TABLE 1**  
**GROUNDWATER ELEVATION AND SPH RECOVERY DATA**  
Kinder Morgan Liquid Terminals LLC  
Linnton Terminal  
Portland, Oregon

Well Identification	Date Gauged	Depth to Water (ft)	Depth to SPH (ft)	SPH Thickness (ft)	Groundwater Elevation <sup>1</sup> (ft)	SPH Recovered by Quarter (gallons)
P-1	01/31/02	-	NP	0.00	-	-
(37.89)	04/24/02	19.31	NP	0.00	18.58	-
	07/30/02	19.72	NP	0.00	18.17	-
	10/29/02			Unable to Locate		
	01/28/03	19.67	NP	0.00	18.22	-
	04/29/03	17.71	NP	0.00	20.18	-
	07/29/03	19.94	NP	0.00	17.95	-
	10/28/03	19.97	NP	0.00	17.92	-
	01/29/04	17.36	NP	0.00	20.53	-
	04/28/04	19.95	NP	0.00	17.94	-
	07/26/04	20.20	NP	0.00	17.69	-
P-2	01/31/02	-	NP	0.00	-	-
(36.54)	04/24/02	13.99	NP	0.00	22.55	-
	07/30/02	15.55	NP	0.00	20.99	-
	10/29/02	16.52	NP	0.00	20.02	-
	01/28/03	14.66	NP	0.00	21.88	-
	04/29/03	12.98	NP	0.00	23.56	-
	07/29/03	15.10	NP	0.00	21.44	-
	10/28/03	11.15	NP	0.00	25.39	-
	01/29/04	13.00	NP	0.00	23.54	-
	04/28/04	14.17	NP	0.00	22.37	-
	07/26/04	15.70	NP	0.00	20.84	-
P-3	01/29/02	16.93	NP	0.00	16.60	-
(33.53)	04/24/02	17.58	NP	0.00	15.95	-
	07/30/02	18.90	NP	0.00	14.63	-
	10/29/02	19.68	NP	0.00	13.85	-
	01/28/03	18.16	NP	0.00	15.37	-
	04/29/03	17.29	NP	0.00	16.24	-
	07/29/03	18.81	NP	0.00	14.72	-
	10/28/03	19.26	NP	0.00	14.27	-
	01/29/04	17.24	NP	0.00	16.29	-
	04/28/04	18.21	NP	0.00	15.32	-
	07/26/04	19.01	NP	0.00	14.52	-
P-4	01/29/02	16.60	NP	0.00	15.15	-
(31.75)	04/24/02	15.91	NP	0.00	15.84	-
	07/30/02	17.18	16.90	0.28	14.79	-
	10/29/02	22.26	NP	0.00	DRY	-
	01/28/03	18.08	17.98	0.10	13.75	-
	04/29/03	15.55	NP	0.00	16.20	-
	07/29/03	18.73	NP	0.00	13.02	-
	10/28/03	19.48	19.40	0.08	12.33	-
	01/29/04	16.99	16.87	0.12	14.86	-
	04/28/04	17.94	NP	0.00	13.81	-
	07/26/04	19.43	NP	0.00	12.32	-

**TABLE 1**  
**GROUNDWATER ELEVATION AND SPH RECOVERY DATA**  
Kinder Morgan Liquid Terminals LLC  
Linnton Terminal  
Portland, Oregon

Well Identification (TOC)	Date Gauged	Depth to Water (ft)	Depth to SPH (ft)	SPH Thickness (ft)	Groundwater Elevation <sup>1</sup> (ft)	Recovered by Quarter (gallons)
P-5  (29.75)	01/29/02	14.41	NP	0.00	15.34	-
	04/24/02	14.40	NP	0.00	15.35	-
	07/30/02	16.35	16.31	0.04	13.43	-
	10/29/02	18.09	18.17	0.08	11.72	-
	01/28/03	14.96	14.95	0.01	14.80	-
	04/29/03	14.61	14.60	0.01	15.15	-
	07/29/03	19.98	17.96	2.02	11.39	-
	10/28/03	18.48	18.15	0.33	11.53	-
	01/29/04	14.00	NP	0.00	15.75	-
	04/28/04	16.73	NP	0.00	13.02	-
	07/26/04	-	-	-	-	-
RW-1  (28.66)	10/30/02	19.36	NP	0.00	9.30	0.65
	11/26/02*	18.92	18.58	0.34	10.01	-
	01/28/03	16.19	15.94	0.25	12.67	1.65
	04/29/03	14.13	13.67	0.46	14.90	1.05
	07/29/03	18.70	17.04	1.66	11.29	9.00
	10/28/03	18.70	17.80	0.90	10.68	-
	01/29/04	19.20	13.10	6.10	14.34	27.00
RW-2  (28.97)	07/26/04	18.20	17.58	0.62	10.96	IRAM Sys
	10/30/02	19.48	NP	0.00	9.49	0.90
	11/26/02*	18.93	18.82	0.11	10.13	-
	01/28/03	19.77	15.86	3.91	12.33	17.25
	04/29/03	17.36	13.73	3.63	14.51	6.75
	07/29/03	19.54	17.23	2.31	11.28	9.00
	10/28/03	18.47	18.23	0.24	10.69	-
RW-3  (29.23)	01/29/04	19.37	13.57	5.80	14.24	33.00
	07/26/04	-	17.00	-	-	IRAM Sys
	10/30/02	22.11	19.50	2.61	9.21	13.50
	11/26/02*	22.96	18.81	4.15	9.59	-
	01/28/03	22.58	15.98	6.60	11.93	30.00
	04/29/03	18.11	13.97	4.14	14.43	18.50
	07/29/03	19.63	16.66	2.97	11.98	8.25
RW-4  (29.69)	10/28/03	19.03	18.49	0.54	10.63	-
	01/29/04	18.33	14.03	4.30	14.34	29.00
	04/28/04	22.87	16.6	6.27	10.62	-
	07/26/04	24.44	17.34	7.10	9.71	IRAM Sys
	10/30/02	20.27	NP	0.00	9.42	-
	01/28/03	18.00	16.58	1.42	12.83	7.50
	04/29/03	16.96	14.59	2.37	14.63	6.50
	07/29/03	18.76	18.50	0.26	11.14	0.70
	10/28/03	18.98	NP	0.00	10.71	-
	01/29/04	17.90	14.07	3.83	14.85	13.00
	04/28/04	18.56	17.41	1.15	10.83	-
	07/26/04	17.50	17.2	0.30	11.21	IRAM Sys

**TABLE 1**  
**GROUNDWATER ELEVATION AND SPH RECOVERY DATA**  
 Kinder Morgan Liquid Terminals LLC  
 Linnton Terminal  
 Portland, Oregon

Well Identification	Date Gauged (TOC)	Depth to Water (ft)	Depth to SPH (ft)	SPH Thickness (ft)	Groundwater Elevation <sup>1</sup> (ft)	Recovered by Quarter (gallons)	SPH
RW-5 (29.83)	10/30/02	20.32	NP	0.00	9.51	0.01	
	01/28/03	15.95	NP	Sheen	13.88	0.05	
	04/29/03	15.31	NP	Sheen	14.52	0.25	
	07/29/03	19.17	19.10	0.07	10.72	0.10	
	10/28/03	19.38	19.36	0.02	10.47	-	
	01/29/04	15.41	14.50	0.91	15.15	4.50	
	04/28/04	18.45	17.80	0.65	10.54	-	
	07/26/04	17.52	17.50	0.02	10.97	IRAM Sys	

**NOTES:**

NP = No Measurable Product

<sup>1</sup> = Elevation relative to 1988 North American Vertical Datum (NAVD)

<sup>2</sup> = Not Sampled. Sheen observed during gauging. SPH measured after purging at 0.05 ft. thickness.

- = Not measured, not analyzed, not sampled or not applicable

Groundwater elevations corrected for product thickness using formula:

GWE = TOC - DTW - (0.8 x (DTW - DTP)) where 0.8 is the density of the SPH

\* = Additional RI Sampling

**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS - TPH BTEX**  
 Kinder Morgan Liquid Terminals LLC  
 Linnton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Benzene ( $\mu\text{g/L}$ )	Toluene ( $\mu\text{g/L}$ )	Ethyl-benzene ( $\mu\text{g/L}$ )	Xylene (total) ( $\mu\text{g/L}$ )	Naphthalene ( $\mu\text{g/L}$ )	Gasoline ( $\mu\text{g/L}$ )	Diesel ( $\mu\text{g/L}$ )	Heavy Oil ( $\mu\text{g/L}$ )
MW-1	02/01/02	2.50 U	2.50 U	2.50 U	5.00 U	<b>31.5</b>	<b>2,610</b>	NA	NA
	11/26/02*	1.00 U	1.00 U	1.00 U	3.00 U	2.00	<b>797</b>	<b>30,000</b>	<b>3,700</b>
	01/29/03	1.00 M	1.00 M	1.00 M	2.00 M	20.0 M	<b>3,610</b>	<b>118,000</b>	<b>13,700</b>
	04/30/03	0.500 M	0.500 M	0.500 M	1.00 M	2.00 M	<b>1,390</b>	<b>129,000</b>	<b>14,100</b>
MW-2	11/26/02*	1.00 U	1.00 U	1.00 U	3.00 U	<b>23.3</b>	<b>1,350</b>	<b>148,000</b>	<b>14,100</b>
MW-3	11/26/02*	1.00 U	1.00 U	1.00 U	3.00 U	<b>2.31</b>	<b>1,280</b>	<b>198,000</b>	500 U
MW-4	02/01/02	0.500 U	0.500 U	0.500 U	1.00 M	2.00 U	<b>884</b>	NA	NA
	05/01/02	2.50 U	2.50 U	2.50 U	5.00 U	<b>31.5 J</b>	<b>2,610</b>	NA	NA
	07/29/02	0.500 M	0.500 M	0.500 M	1.00 M	0.500 M	<b>169</b>	<b>12,600</b>	500 M
	10/30/02	0.500 M	0.500 M	0.500 M	1.00 M	3.50 M	<b>479</b>	<b>33,000</b>	500 M
DUP	10/30/02	0.500 M	0.500 M	0.500 M	1.00 M	2.00 M	<b>535</b>	<b>2,480</b>	500 M
	01/29/03	0.500 M	0.500 M	0.500 M	1.00 M	1.20 M	<b>326</b>	<b>16,900</b>	500 M
	04/30/03	0.500 M	0.500 M	0.500 M	1.00 M	2.50 M	<b>119</b>	<b>10,800</b>	500 M
	07/29/03	0.500 M	<b>0.504</b>	<b>0.764</b>	<b>4.39</b>	NA	<b>125</b>	<b>50,100</b>	2,500 M
	10/28/03	0.500 M	<b>0.757</b>	0.500 M	<b>2.51</b>	NA	<b>1,180</b>	<b>120,000</b>	10,000 M
	01/30/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	<b>81.7</b>	<b>82,600</b>	1,000 M
	04/29/04	0.500 M	<b>0.986</b>	0.500 M	1.00 M	NA	80.0 M	<b>16,900</b>	500 M
	07/26/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	<b>150</b>	<b>17,400</b>	500 M
MW-5	02/01/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 U	NA	NA
	04/24/02	0.500 U	0.500 U	0.500 U	1.00 M	2.00 U	80.0 U	250 U	500 U
	07/30/02	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	50.0 M	NA	NA
	01/28/03	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	<b>563</b>	500 M
	04/30/03	0.500 M	0.500 M	0.500 M	1.00 M	0.200 M	80.0 M	<b>472</b>	500 M
	01/29/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	<b>713</b>	500 M
	04/28/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	<b>905</b>	500 M
MW-6	02/01/02	<b>30.6</b>	<b>12</b>	<b>12.4</b>	<b>11.3</b>	2.00 U	<b>2,270</b>	NA	NA
	04/24/02	<b>37.1</b>	<b>6.34</b>	<b>6.03</b>	<b>8.45</b>	2.00 U	<b>2,140</b>	250 U	500 U
	07/30/02	<b>16.6</b>	<b>1.51</b>	<b>1.92</b>	<b>5.86</b>	2.00 M	<b>1,730</b>	NA	NA
	01/29/03	<b>6.84</b>	<b>1.52</b>	<b>1.22</b>	<b>2.39</b>	2.00 M	<b>1,800</b>	250 M	500 M
	04/29/03	<b>31.3</b>	<b>4.34</b>	<b>2.30</b>	<b>1.51</b>	1.70 M	<b>2,080</b>	250 M	500 M
DUP	01/29/04	<b>53.7</b>	<b>3.51</b>	<b>3.52</b>	<b>6.98</b>	NA	<b>2,610</b>	<b>1,350</b>	500 M
	04/28/04	<b>51.2</b>	<b>3.33</b>	<b>3.26</b>	<b>6.44</b>	NA	<b>2,350</b>	<b>1,220</b>	500 M
		<b>53.8</b>	<b>4.63</b>	<b>1.25</b>	<b>3.22</b>	NA	<b>2,620</b>	<b>1,200</b>	500 M
MW-7	01/31/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 U	NA	NA
	04/24/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 U	250 U	500 U
	07/29/02	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	50.0 M	250 M	500 M
	10/29/02	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	<b>98.7</b>	250 M	500 M
	01/28/03	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	250 M	500 M
	04/29/03	0.500 M	0.500 M	0.500 M	1.00 M	0.250 M	80.0 M	250 M	500 M
	07/29/03	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	10/28/03	0.500 M	<b>2.11</b>	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
DUP	10/28/03	0.500 M	<b>1.18</b>	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	01/29/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	04/28/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	07/26/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M

**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS - TPH BTEX**  
 Kinder Morgan Liquid Terminals LLC  
 Linnton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Benzene ( $\mu\text{g/L}$ )	Toluene ( $\mu\text{g/L}$ )	Ethylbenzene ( $\mu\text{g/L}$ )	Xylene (total) ( $\mu\text{g/L}$ )	Naphthalene ( $\mu\text{g/L}$ )	Gasoline ( $\mu\text{g/L}$ )	Diesel ( $\mu\text{g/L}$ )	Heavy Oil ( $\mu\text{g/L}$ )
MW-8	02/01/02	<b>10.8</b>	<b>10</b>	<b>22.3</b>	<b>8.31</b>	<b>4.92</b>	<b>2,350</b>	NA	NA
	04/25/02	<b>2.85</b>	<b>4.45</b>	<b>13.4</b>	<b>4.52</b>	<b>7.64</b>	<b>1,190</b>	250 U	500 U
	07/29/02	<b>10.2</b>	<b>4.02</b>	<b>27.8</b>	<b>14.8</b>	<b>41.0</b>	<b>1,900</b>	<b>3,340</b>	500 M
	10/30/02	<b>1.88</b>	<b>0.691</b>	<b>3.89</b>	<b>9.86</b>	<b>0.772</b>	<b>764</b>	<b>1,170</b>	500 M
	01/29/03	<b>15.8</b>	<b>4.80</b>	<b>27.6</b>	<b>8.76</b>	<b>5.89</b>	<b>2,340</b>	<b>3,390</b>	500 M
	04/30/03	<b>11.8</b>	<b>2.11</b>	<b>30.1</b>	<b>10.4</b>	<b>23.1</b>	<b>1,810</b>	<b>2,250</b>	500 M
	07/29/03	<b>8.38</b>	<b>2.50</b>	<b>5.23</b>	<b>5.80</b>	NA	<b>887</b>	<b>961</b>	500 M
	10/28/03	<b>0.927</b>	<b>1.97</b>	<b>1.25</b>	<b>4.18</b>	NA	<b>623</b>	<b>571</b>	500 M
	01/30/04	<b>8.34</b>	<b>1.73</b>	<b>29.0</b>	<b>19.4</b>	NA	<b>1,920</b>	<b>1,810</b>	500 M
	04/29/04	<b>2.69</b>	0.500 M	<b>1.62</b>	1.00 M	NA	<b>618</b>	<b>1,020</b>	500 M
	07/26/04	<b>3.24</b>	<b>1.73</b>	<b>1.09</b>	<b>2.45</b>	NA	<b>376</b>	<b>1,300</b>	500 M
MW-9	02/01/02	<b>357</b>	<b>4.48</b>	2.50 M	5.00 M	10.0 U	<b>1,730</b>	NA	NA
	04/25/02	<b>312</b>	<b>6.84</b>	<b>5.47</b>	<b>9.44</b>	10.0 U	<b>1,360</b>	250 U	500 U
	07/29/02	<b>727</b>	<b>7.44</b>	<b>6.54</b>	<b>12.2</b>	1.00 M	<b>2,850</b>	250 M	500 M
	10/30/02	<b>511</b>	<b>11.4</b>	<b>6.14</b>	10.0 M	1.00 M	<b>1,420</b>	<b>486</b>	500 M
	01/29/03	<b>193</b>	<b>2.66</b>	2.50 M	5.00 M	0.500 M	<b>1,390</b>	<b>402</b>	500 M
	04/30/03	<b>663</b>	<b>9.36</b>	<b>11.6</b>	<b>11.1</b>	2.30 M	<b>3,440</b>	250 M	500 M
	07/30/03	<b>519</b>	<b>10.8</b>	<b>8.51</b>	<b>17.3</b>	NA	<b>2,060</b>	<b>457</b>	500 M
	10/29/03	<b>32.6</b>	<b>0.576</b>	<b>4.94</b>	1.00 M	NA	<b>1,790</b>	<b>680</b>	500 M
	01/30/04	<b>49.0</b>	<b>7.30</b>	<b>6.52</b>	<b>11.8</b>	NA	<b>1,970</b>	<b>693</b>	500 M
	04/29/04	<b>792</b>	<b>13.8</b>	<b>16.9</b>	<b>17.6</b>	NA	<b>3,100</b>	<b>903</b>	500 M
	07/26/04	<b>850</b>	<b>13.8</b>	<b>7.77</b>	<b>18.3</b>	NA	<b>3,800</b>	<b>1,600</b>	<b>601</b>
MW-10	02/01/02	<b>15.5</b>	<b>7.7</b>	<b>6.97</b>	<b>5.89</b>	10.0 M	<b>3,590</b>	NA	NA
DUP	02/01/02	<b>18</b>	<b>8.7</b>	<b>7.83</b>	<b>6.7</b>	10.0 U	<b>4,010</b>	NA	NA
	04/25/02	<b>16.7</b>	<b>8.48</b>	<b>7.65</b>	<b>9.13</b>	4.00 U	<b>4,470</b>	<b>3,850</b>	500 U
	11/27/02*	<b>3.17</b>	<b>2.41</b>	1.00 U	<b>2.49</b>	2.00 U	<b>3,630</b>	<b>15,200</b>	500 U
	04/30/03	<b>15.4</b>	<b>9.14</b>	<b>6.63</b>	5.00 M	100 M	<b>3,630</b>	<b>483,000</b>	5,000 M
	07/30/03	<b>9.23</b>	<b>6.60</b>	<b>5.95</b>	<b>8.52</b>	NA	<b>3,320</b>	<b>99,100</b>	10,000 M
	10/29/03	<b>10.6</b>	<b>5.88</b>	<b>4.94</b>	<b>7.06</b>	NA	<b>4,120</b>	<b>146,000</b>	2,500 M
MW-12	01/31/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	<b>1,320</b>	NA	NA
	04/25/02	1.00 U	1.00 U	1.00 U	2.00 U	4.00 U	<b>1,970</b>	<b>4,030</b>	500 U
	07/29/02	<b>0.721</b>	<b>0.526</b>	0.500 M	<b>5.60</b>	2.50 M	<b>1,110</b>	<b>11,100</b>	500 M
DUP	07/29/02	<b>0.729</b>	<b>0.534</b>	0.500 M	<b>5.68</b>	5.00 M	<b>1,140</b>	<b>5,180</b>	500 U
	10/29/02	1.00 M	<b>6.61</b>	<b>13.6</b>	<b>3.11</b>	2.50 M	<b>3,630</b>	<b>5,540</b>	500 M
	01/28/03	0.500 M	<b>0.534</b>	0.500 M	1.00 M	3.00 M	<b>1,250</b>	<b>110,000</b>	10000 M
	04/29/03	0.500 M	<b>0.547</b>	0.500 M	<b>2.55</b>	1.50 M	<b>740</b>	<b>14,500</b>	500 M
	07/29/03	<b>0.940</b>	<b>0.717</b>	<b>1.50</b>	<b>3.57</b>	NA	<b>832</b>	2,000	500 M
	10/28/03	<b>0.933</b>	<b>1.51</b>	<b>1.31</b>	<b>2.65</b>	NA	<b>1,110</b>	<b>25,300</b>	500 M
	01/29/04	<b>2.05</b>	0.500 M	<b>1.17</b>	<b>6.78</b>	NA	<b>835</b>	<b>12,700</b>	500 M
	04/29/04	0.500 M	0.500 M	<b>0.839</b>	<b>1.79</b>	NA	<b>669</b>	<b>8,030</b>	500 M
	07/26/04	<b>1.17</b>	<b>1.03</b>	<b>2.69</b>	<b>9.47</b>	NA	<b>1,720</b>	<b>12,500</b>	500 M

**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS - TPH BTEX**  
 Kinder Morgan Liquid Terminals LLC  
 Linnton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylene (total) (µg/L)	Naphthalene (µg/L)	Gasoline (µg/L)	Diesel (µg/L)	Heavy Oil (µg/L)
MW-13	01/31/02	109	6.74	8.9	5.00 M	10.0 U	6,150	NA	NA
DUP	01/31/02	102	6.86	8.7	5.00 M	10.0 U	6,110	NA	NA
	04/25/02	48.5	7.56	9.14	5.00 U	10.0 U	5,700	250 U	500 U
DUP	04/25/02	51.8	8.62	8.76	5.00 U	10.0 U	5,720	250 U	500 U
	07/29/02	2.63	1.6	2.88	7.76	0.100 M	3,330	2,690	500 M
	10/29/02	4.68	3.35	2.38	6.37	4.00 M	2,320	2,180	762
DUP	10/29/02	5.82	3.10	2.45	5.89	3.00 M	2,350	2,020	1,000
	01/28/03	2.71	3.22	2.56	6.52	1.20 M	2,220	2,230	500 M
DUP	01/28/03	2.35	3.05	2.51	6.26	1.30 M	2,480	1,880	500 M
	04/29/03	107	3.56	5.72	5.00 M	2.50 M	6,160	833 M	1670 M
	07/29/03	3.23	2.48	1.84	4.91	NA	2,130	546	500 M
	10/28/03	2.18	3.90	1.50	4.43	NA	2,210	1,780	500 M
	01/29/04	16.8	1.32	4.19	7.76	NA	3,390	3,240	500 M
	04/28/04	1.86	1.84	1.11	3.68	NA	2,570	1,940	500 M
	07/26/04	1.21	0.768	1.97	5.05	NA	1,580	2,020	825
DUP	07/26/04	2.52	1.72	2.10	6.35	NA	2,010	2,000	899
MW-14	01/31/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 U	NA	NA
	04/24/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 M	250 U	500 U
	07/30/02	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	50.0 M	305 M	610 M
	10/29/02	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	250 M	500 M
	01/29/03	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	250 M	500 M
	04/29/03	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	160	250 M	500 M
	07/29/03	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	10/28/03	0.500 M	0.792	0.500 M	1.00 M	NA	80.0 M	287 M	500 M
	01/29/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	04/28/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	07/26/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
MW-15	01/31/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 U	NA	NA
	04/24/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 U	250 U	500 U
	07/30/02	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	50.0 M	250 M	500 M
	10/29/02	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	250 M	500 M
	01/29/03	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	250 M	500 M
	04/29/03	0.500 M	0.500 M	0.500 M	1.00 M	0.137	80.0 M	250 M	500 M
DUP	04/29/03	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	250 M	500 M
	07/29/03	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
DUP	07/29/03	0.500 M	0.785	0.500 M	1.48	NA	80.0 M	250 M	500 M.
	10/28/03	0.500 M	1.01	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	01/29/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	04/28/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	07/26/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	286M	571M

**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS - TPH BTEX**  
 Kinder Morgan Liquid Terminals LLC  
 Linnton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Benzene ( $\mu\text{g/L}$ )	Toluene ( $\mu\text{g/L}$ )	Ethylbenzene ( $\mu\text{g/L}$ )	Xylene (total) ( $\mu\text{g/L}$ )	Naphthalene ( $\mu\text{g/L}$ )	Gasoline ( $\mu\text{g/L}$ )	Diesel ( $\mu\text{g/L}$ )	Heavy Oil ( $\mu\text{g/L}$ )
MW-16	02/01/02	<b>49.1</b>	<b>12.6</b>	<b>4.42</b>	<b>7.61</b>	10.0 M	<b>3,620</b>	NA	NA
	04/25/02	<b>46</b>	<b>14</b>	2.50 U	<b>8.73</b>	10.0 U	<b>3,570</b>	<b>4,040</b>	<b>1,050</b>
	07/30/02	<b>83.6</b>	<b>14.0</b>	<b>2.73</b>	<b>11.0</b>	2.50 M	<b>1,920</b>	<b>4,740</b>	1000 M
DUP	07/30/02	<b>79.3</b>	<b>14.4</b>	<b>3.31</b>	<b>13.0</b>	2.50 M	<b>1,950</b>	<b>6,240</b>	<b>2,060</b>
	11/27/02*	<b>79.9</b>	<b>11.3</b>	1.00 U	<b>3.84</b>	2.00 U	<b>2,000</b>	<b>2,660</b>	<b>1,160</b>
DUP	01/28/03	<b>40.5</b>	<b>13.4</b>	<b>4.35</b>	<b>10.6</b>	1.80 M	<b>2,930</b>	<b>30,400</b>	<b>17,600</b>
	04/29/03	<b>34.2</b>	<b>10.3</b>	<b>2.50</b>	<b>10.9</b>	2.20 M	<b>3,500</b>	<b>35,100</b>	<b>13,100</b>
DUP	07/29/03	<b>43.7</b>	<b>13.0</b>	<b>3.06</b>	<b>8.68</b>	2.00 M	<b>2,300</b>	<b>12,900</b>	<b>5,160</b>
	10/28/03	<b>65.7</b>	<b>10.1</b>	<b>2.91</b>	<b>6.98</b>	NA	<b>1,420</b>	<b>11,100</b>	<b>5,870</b>
DUP	04/28/04	<b>77.9</b>	<b>12.8</b>	<b>2.16</b>	<b>7.95</b>	NA	<b>1,910</b>	<b>7,520</b>	<b>3,440</b>
	07/26/04	<b>26.5</b>	<b>8.74</b>	<b>1.28</b>	<b>5.73</b>	NA	<b>1,860</b>	<b>74,200</b>	<b>37,600</b>
DUP	04/28/04	<b>26.7</b>	<b>8.94</b>	<b>1.40</b>	<b>5.88</b>	NA	<b>1,780</b>	<b>50,200</b>	<b>21,700</b>
	07/26/04	<b>107</b>	<b>16.2</b>	<b>5.19</b>	<b>14.6</b>	NA	<b>2,890</b>	<b>28,100</b>	<b>15,400</b>
MW-17	01/31/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	<b>93.8</b>	NA	NA
	04/24/02	0.500 U	0.500 U	0.500 U	1.00 M	2.00 M	<b>126</b>	<b>360</b>	500 U
	07/30/02	0.500 M	0.500 M	<b>0.702</b>	<b>2.72</b>	1.00 M	<b>199</b>	<b>352</b>	500 M
DUP	10/30/02	0.500 M	0.500 M	0.500 M	1.00 M	1.00 M	80.0 M	250 M	500 M
	01/29/03	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	250 M	500 M
DUP	04/29/03	0.500 M	0.500 M	0.500 M	1.00 M	0.300 M	<b>118</b>	<b>256</b>	500 M
	07/29/03	0.500 M	<b>0.749</b>	0.500 M	1.00 M	0.350 M	80.0 M	250 M	500 M
DUP	07/29/03	0.500 M	0.500 M	0.500 M	1.00 M	NA	<b>109</b>	<b>553</b>	500 M
	10/28/03	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	<b>452</b>	500 M
DUP	01/29/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	04/28/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
MW-18	07/26/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	<b>423</b>	500 M
	04/25/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 U	250 U	500 U
DUP	04/25/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 M	250 U	500 U
	07/29/02	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	50.0 M	250 M	500 M
DUP	10/30/02	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	250 M	500 M
	01/29/03	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	250 M	500 M
DUP	04/29/03	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	250 M	500 M
	07/30/03	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
DUP	10/29/03	0.500 M	<b>2.02</b>	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	01/30/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
DUP	04/28/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500M
	07/26/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500M

**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS - TPH BTEX**  
 Kinder Morgan Liquid Terminals LLC  
 Linnton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylene (total) (µg/L)	Naphthalene (µg/L)	Gasoline (µg/L)	Diesel (µg/L)	Heavy Oil (µg/L)
MW-20	05/01/03	<b>36.5</b>	<b>7.12</b>	<b>5.15</b>	<b>7.20</b>	5.00 M	<b>3,460</b>	<b>5,850</b>	500 M
	07/30/03	<b>45.7</b>	<b>7.59</b>	<b>8.15</b>	<b>8.07</b>	NA	<b>2,680</b>	<b>7,200</b>	500 M
MW-21	05/01/03	<b>3.15</b>	<b>4.92</b>	<b>2.92</b>	<b>3.51</b>	3.00 M	<b>2,260</b>	<b>6,040</b>	500 M
	07/30/03	<b>4.15</b>	<b>5.45</b>	<b>4.08</b>	<b>10.8</b>	NA	<b>3,730</b>	<b>4,830</b>	500 M
MW-22	05/01/03	<b>11.7</b>	<b>3.54</b>	<b>2.43</b>	<b>4.52</b>	1.70 M	<b>1,330</b>	<b>2,570</b>	500 M
	07/30/03	<b>10.4</b>	<b>7.04</b>	<b>1.67</b>	<b>7.30</b>	NA	<b>1,080</b>	<b>2,650</b>	500 M
	10/29/03	0.500 M	<b>1.18</b>	0.500 M	1.00 M	NA	<b>138</b>	<b>1,330</b>	500 M
	01/30/04	<b>6.88</b>	<b>0.950</b>	<b>3.03</b>	<b>12.3</b>	NA	<b>2,550</b>	<b>2,130</b>	500 M
	04/29/04	<b>13.7</b>	<b>3.56</b>	<b>1.81</b>	<b>4.68</b>	NA	<b>1,670</b>	<b>3,470</b>	<b>510</b>
	07/26/04	<b>0.817</b>	<b>5.20</b>	<b>1.59</b>	<b>5.75</b>	NA	<b>1,210</b>	<b>3,340</b>	<b>776</b>
MW-23	07/26/04	<b>0.844</b>	<b>2.96</b>	<b>3.25</b>	<b>9.65</b>	NA	<b>1,750</b>	<b>11,400</b>	<b>687</b>
MW-24	07/26/04	<b>0.976</b>	<b>1.19</b>	<b>2.40</b>	<b>10.0</b>	NA	<b>1,850</b>	<b>14,400</b>	<b>13,100</b>
RW-1	11/26/02*	<b>7.68</b>	2.00 U	<b>16.1</b>	<b>15.5</b>	<b>145</b>	<b>3,930</b>	<b>998,000</b>	<b>45,000</b>
RW-2	11/26/02*	<b>30.3</b>	1.00 U	<b>21.0</b>	<b>16.7</b>	<b>46.7</b>	<b>1,690</b>	<b>243,000</b>	<b>57,700</b>
RW-3	11/26/02*	<b>3.80</b>	1.00 U	<b>7.51</b>	3.00 U	<b>9.04</b>	<b>1,430</b>	<b>678,000</b>	50000 U
Trip Blank	04/24/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 U	NA	NA
	04/25/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 U	NA	NA
	07/29/02	0.500 M	0.500 M	0.500 M	1.00 M	NA	50.0 M	NA	NA
	10/29/02	0.500 M	0.500 M	0.500 M	1.00 M	NA	NA	NA	NA

**NOTES:**

Gasoline Range Hydrocarbons analyzed by NW TPH-Gx Method

Diesel and Heavy Oil Range Hydrocarbons analyzed by NW TPH-DX Method

Benzene, Toluene, Ethylbenzene, Xylene, and Naphthalene (BTEX/N) analyzed by USEPA Method 8021B or 8260B

µg/l = micrograms per liter

Lab reported Diesel and Heavy Oil in mg/l

NA = Not Analyzed

J = Estimated Value

U = Analyte included in the analysis but not detected above laboratory method detection limits (MDLs)

M = Analyte included in the analysis but not detected above laboratory method reporting limits (MRLs)

**Bold Face Font** = Analyte detected above the MRLs

\* = Additional RI Sampling

**TABLE 3**  
**GROUNDWATER ANALYTICAL PAHs**  
Kinder Morgan Liquid Terminals LLC  
Linton Terminal  
Portland, Oregon

Sample ID	Sample Date	Acenaphthene ( $\mu\text{g/L}$ )	Acenaphthylene ( $\mu\text{g/L}$ )	Anthracene ( $\mu\text{g/L}$ )	Benz(a)anthracene ( $\mu\text{g/L}$ )	Benz(a)pyrene ( $\mu\text{g/L}$ )	Benz(b)fluoranthene ( $\mu\text{g/L}$ )	Benz(g,h)perylene ( $\mu\text{g/L}$ )	Benz(k)fluoranthene ( $\mu\text{g/L}$ )	Chrysene ( $\mu\text{g/L}$ )	Dibenz(a,h)anthracene ( $\mu\text{g/L}$ )	Fluoranthene ( $\mu\text{g/L}$ )	Fluorene ( $\mu\text{g/L}$ )	Indeno(1,2,3-cd)pyrene ( $\mu\text{g/L}$ )	Naphthalene ( $\mu\text{g/L}$ )	Phenanthrene ( $\mu\text{g/L}$ )	Pyrene ( $\mu\text{g/L}$ )
MW-1	02/01/02	5.00 U	2.50 U	<b>2.74</b>	0.500 U	0.500 U	0.500 U	0.500 U	0.500 M	1.00 U	0.500 U	<b>20.9</b>	0.500 U	12.5 U	13.3	<b>2.23</b>	
	11/26/2002*	<b>2.28</b>	0.500 U	<b>1.98</b>	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	<b>13.9</b>	0.500 U	5.00 U	11.0	<b>1.48</b>	
	01/29/03	10.0 M	5.00 M	<b>10.8</b>	<b>0.284</b>	<b>0.394</b>	<b>0.322</b>	0.200 M	<b>0.266</b>	<b>1.46</b>	0.400 M	<b>60.6</b>	0.200 M	20.0 M	<b>54.7</b>	<b>6.98</b>	
	04/30/03	<b>2.74</b>	1.00 M	<b>2.48</b>	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	<b>16.5</b>	1.00 M	2.00 M	12.7	<b>2.00</b>	
MW-2	11/26/2002*	<b>4.44</b>	1.00 U	<b>2.72</b>	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	2.00 U	<b>1.16</b>	<b>14.8</b>	1.00 U	<b>21.1</b>	<b>15.4</b>	<b>2.24</b>	
MW-3	11/26/2002*	10.0 U	10.0 U	<b>3.89</b>	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	<b>33.0</b> U	0.500 U	10.0 U	<b>22.1</b>	<b>2.98</b>	
MW-4	02/01/02	0.500 U	0.100 U	<b>0.257</b>	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	<b>2.32</b>	0.100 U	1.00 U	<b>0.725</b>	<b>0.17</b>	
	04/25/02	0.500 U	0.100 U	<b>0.368</b>	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	<b>2.21</b>	0.100 U	0.500 U	<b>0.818</b>	<b>0.182</b>	
	07/29/02	<b>0.405</b>	0.100 M	0.500 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	<b>1.76</b>	0.100 M	0.500 M	0.500 M	<b>0.313</b>	
	10/30/02	2.50 M	0.500 M	<b>4.26</b>	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	1.00 M	0.500 M	8.00 M	0.500 M	3.50 M	<b>7.64</b>	<b>3.09</b>	
DUP	10/30/02	1.50 M	0.500 M	<b>2.18</b>	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	1.00 M	0.5	<b>4.38</b>	0.500 M	2.00 M	<b>3.60</b>	<b>1.61</b>	
	01/29/03	0.800 M	0.400 M	<b>0.860</b>	0.400 M	0.400 M	0.400 M	0.400 M	0.400 M	0.800 M	0.400 M	<b>2.97</b>	0.400 M	1.20 M	<b>2.23</b>	<b>0.600</b>	
	04/30/03	2.50 M	2.50 M	2.50 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	2.50 M	<b>4.88</b>	0.100 M	2.50 M	<b>2.74</b>	<b>0.774</b>	
	07/29/03	1.00 M	0.750 M	<b>1.79</b>	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	1.00 M	0.500 M	<b>5.12</b>	0.500 M	3.25	<b>4.40</b>	<b>1.35</b>	
	10/28/03	3.00 M	2.00 M	4.00 M	2.00 M	2.00 M	2.00 M	2.00 M	2.00 M	4.00 M	2.00 M	11.0 M	2.00 M	3.00 M	<b>8.85</b>	<b>4.00</b>	
	01/30/04	3.00 M	2.50 M	<b>6.90</b>	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	11.5 M	1.00 M	4.50 M	<b>10.3</b>	<b>4.41</b>	
	04/29/04	1.00 M	0.750 M	1.75 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	1.00 M	0.500 M	<b>4.04</b>	0.500 M	2.25 M	2.50 M	<b>1.32</b>	
	07/26/04	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	<b>1.74</b>	1.00 M	1.50 M	1.00 M	1.00 M	
MW-5	02/01/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	
	04/24/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 M	0.100 U	0.100 U	
	01/28/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	04/30/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	
	01/29/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.150 M	0.100 M	0.100 M	
	04/28/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.150 M	0.100 M	0.100 M	
MW-6	02/01/02	<b>0.163</b>	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	<b>0.131</b>	0.100 U	5.00 U	<b>0.225</b>	0.100 U	
	04/24/02	<b>0.161</b>	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	<b>0.101</b>	0.100 U	2.00 U	<b>0.214</b>	0.100 U	
	01/29/03	<b>0.129</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.200 M	<b>0.128</b>	0.100 M	
	04/29/03	<b>0.107</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.200 M	<b>0.110</b>	0.100 M	
	01/29/04	<b>0.115</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.200 M	<b>0.146</b>	0.100 M	
DUP	01/29/04	<b>0.115</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.200 M	<b>0.130</b>	0.100 M	
	04/28/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.200 M	<b>0.110</b>	0.100 M	

**TABLE 3**  
**GROUNDWATER ANALYTICAL PAHs**  
 Kinder Morgan Liquid Terminals LLC  
 Linnton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Aceanaphthene ( $\mu\text{g/L}$ )	Aceanaphthylene ( $\mu\text{g/L}$ )	Anthracene ( $\mu\text{g/L}$ )	Benzol[a]anthracene ( $\mu\text{g/L}$ )	Benzol[a]pyrene ( $\mu\text{g/L}$ )	Benzol[b]fluoranthene ( $\mu\text{g/L}$ )	Benzol[ghi]perylene ( $\mu\text{g/L}$ )	Benzol[k]fluoranthene ( $\mu\text{g/L}$ )	Chrysene ( $\mu\text{g/L}$ )	Dibenzol[a,h]anthracene ( $\mu\text{g/L}$ )	Fluoranthene ( $\mu\text{g/L}$ )	Fluorene ( $\mu\text{g/L}$ )	Indeno[1,2,3-cd]pyrene ( $\mu\text{g/L}$ )	Naphthalene ( $\mu\text{g/L}$ )	Phenanthrene ( $\mu\text{g/L}$ )	Pyrene ( $\mu\text{g/L}$ )
MW-7	01/31/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	
	04/24/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	
	07/29/02	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	10/29/02	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	01/28/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	04/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.250 M	0.100 M	0.100 M	
	07/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	10/28/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
DUP	10/28/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	01/29/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	04/28/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	07/26/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
MW-8	02/01/02	<b>18.9</b>	2.00 U	<b>0.759</b>	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	<b>1.03</b>	<b>12.4</b>	0.100 U	<b>2.56</b>	<b>11.2</b>	<b>1.19</b>	
	04/25/02	<b>40.5</b>	0.500 M	<b>0.606</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.139	0.200 U	<b>1.69</b>	<b>18.6</b>	0.100 U	<b>8.36</b>	<b>7.73</b>	<b>1.72</b>
	07/29/02	<b>57.1</b>	0.100 M	<b>0.629</b>	<b>0.117</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.178	0.200 M	<b>1.36</b>	<b>22.3</b>	0.100 M	<b>41.0</b>	<b>7.78</b>	<b>2.34</b>
	10/30/02	<b>90.3</b>	1.00 M	<b>1.31</b>	<b>0.568</b>	<b>0.723</b>	<b>0.529</b>	<b>0.675</b>	0.500 M	<b>0.733</b>	1.00 M	<b>2.65</b>	<b>43.4</b>	0.500 M	<b>0.772</b>	<b>8.42</b>	<b>3.34</b>
	01/29/03	<b>18.9</b>	1.00 M	<b>0.429</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	<b>0.697</b>	<b>9.94</b>	0.100 M	<b>5.89</b>	<b>4.72</b>	<b>0.798</b>	
	04/30/03	<b>27.1</b>	5.00 M	<b>0.780</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	<b>0.854</b>	<b>13.4</b>	0.100 M	<b>23.1</b>	<b>4.21</b>	<b>1.30</b>	
	07/29/03	<b>70.6</b>	<b>0.303</b>	<b>0.688</b>	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	<b>1.32</b>	<b>33.6</b>	0.200 M	<b>2.84</b>	<b>10.0</b>	<b>1.73</b>		
	10/28/03	<b>51.7</b>	0.250 M	<b>0.527</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	<b>0.917</b>	<b>28.7</b>	0.100 M	<b>0.322</b>	<b>4.84</b>	<b>1.17</b>		
	01/30/04	<b>32.1</b>	0.400 M	<b>0.618</b>	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.400 M	<b>0.777</b>	<b>13.3</b>	0.200 M	<b>10.5</b>	<b>6.37</b>	<b>0.879</b>	
	04/29/04	<b>58.5</b>	0.300 M	<b>0.743</b>	<b>0.167</b>	<b>0.138</b>	<b>0.124</b>	<b>0.183</b>	<b>0.119</b>	<b>0.224</b>	0.200 M	<b>1.43</b>	<b>25.9</b>	<b>0.126</b>	2.00 M	<b>12.5</b>	<b>1.54</b>
	07/26/04	<b>51.4</b>	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	<b>1.06</b>	<b>26.8</b>	1.00 M	3.67	<b>1.09</b>		

**TABLE 3**  
**GROUNDWATER ANALYTICAL PAHs**  
 Kinder Morgan Liquid Terminals LLC  
 Linton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Aceanaphthene ( $\mu\text{g/L}$ )	Aceanaphthylene ( $\mu\text{g/L}$ )	Anthracene ( $\mu\text{g/L}$ )	Benz(a)anthracene ( $\mu\text{g/L}$ )	Benz(a)pyrene ( $\mu\text{g/L}$ )	Benz(b)fluoranthene ( $\mu\text{g/L}$ )	Benz(g/h)perylene ( $\mu\text{g/L}$ )	Benz(k)fluoranthene ( $\mu\text{g/L}$ )	Chrysene ( $\mu\text{g/L}$ )	Dibenz(a,h)anthracene ( $\mu\text{g/L}$ )	Fluoranthene ( $\mu\text{g/L}$ )	Fluorene ( $\mu\text{g/L}$ )	Indeno(1,2,3-cd)pyrene ( $\mu\text{g/L}$ )	Naphthalene ( $\mu\text{g/L}$ )	Phenanthrene ( $\mu\text{g/L}$ )	Pyrene ( $\mu\text{g/L}$ )
MW-9	02/01/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.500 U	0.100 U	0.100 M	
	04/25/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	1.00 U	0.100 U	0.100 U	
	07/29/02	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	1.00 M	0.100 M	0.100 M	
	10/30/02	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	1.00 M	0.100 M	0.100 M	
	01/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.500 M	0.100 M	0.100 M	
	04/30/03	<b>0.112</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	2.30 M	0.100 M	0.100 M	
	07/30/03	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.400 M	0.200 M	0.200 M	0.200 M	2.00 M	0.200 M	0.200 M	
	10/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.550 M	0.100 M	0.100 M	
	01/30/04	<b>0.116</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	1.65 M	0.100 M	0.100 M	
	04/29/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	1.60 M	0.100 M	0.100 M	
	07/26/04	<b>0.114</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	3.50 M	0.100 M	0.100 M	
MW-10	02/01/02	<b>7.81</b>	0.100 U	<b>0.304</b>	0.100 U	0.100 U	0.100 U	0.100 U	0.100 M	0.200 U	<b>0.447</b>	<b>5.21</b>	0.100 U	5.00 U	<b>1.41</b>	<b>0.512</b>	
DUP	02/01/02	<b>6.6</b>	0.500 U	<b>0.228</b>	0.100 U	0.100 U	0.100 U	0.100 U	0.100 M	0.200 U	<b>0.387</b>	<b>4.19</b>	0.100 U	5.00 U	<b>0.657</b>	<b>0.461</b>	
	04/25/02	<b>4.39</b>	0.100 U	<b>0.367</b>	<b>0.123</b>	<b>0.108</b>	0.100 M	0.100 M	0.100 M	0.142	0.200 U	<b>0.784</b>	<b>3.21</b>	0.100 M	2.50 U	<b>0.903</b>	<b>0.933</b>
	11/27/02*	<b>10.8</b>	0.500 U	<b>1.56</b>	0.500 U	<b>0.678</b>	0.500 U	<b>0.695</b>	0.500 U	<b>0.605</b>	1.00 U	<b>1.77</b>	<b>10.7</b>	0.500 U	17.0 U	<b>9.62</b>	<b>2.20</b>
	04/30/03	<b>150</b>	100 M	<b>23.1</b>	<b>12.0</b>	<b>10.6</b>	<b>6.90</b>	<b>5.00</b>	<b>7.08</b>	<b>14.9</b>	2.00 M	<b>73.6</b>	<b>163</b>	<b>4.00</b>	100 M	<b>176</b>	<b>76.1</b>
	07/30/03	<b>29.4</b>	6.00 M	<b>6.16</b>	<b>3.40</b>	<b>4.07</b>	<b>3.08</b>	<b>3.24</b>	2.00 M	<b>4.16</b>	4.00 M	<b>10.6</b>	<b>25.5</b>	<b>2.18</b>	32.0 M	<b>22.9</b>	<b>18.8</b>
	10/29/03	<b>19.8</b>	3.50 M	<b>4.02</b>	<b>2.17</b>	<b>2.12</b>	<b>1.44</b>	<b>1.35</b>	<b>1.22</b>	<b>2.92</b>	2.00 M	<b>9.89</b>	<b>19.6</b>	1.00 M	12.5 M	<b>20.6</b>	<b>14.3</b>
MW-12	01/31/02	<b>2.05</b>	0.500 U	<b>0.212</b>	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	<b>4.34</b>	0.100 U	2.50 U	<b>4.11</b>	0.100 M	
	04/25/02	<b>1.62</b>	0.100 U	<b>0.349</b>	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 M	<b>3.32</b>	0.100 U	1.00 U	<b>4.56</b>	<b>0.143</b>	
	07/29/02	5.00 M	0.500 M	<b>0.693</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.500 M	<b>5.33</b>	0.100 M	2.50 M	<b>7.29</b>	<b>0.260</b>	
DUP	07/29/02	<b>2.44</b>	0.500 M	<b>0.655</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	<b>4.67</b>	0.100 M	5.00 M	<b>5.23</b>	<b>0.293</b>	
	10/29/02	<b>1.72</b>	0.100 M	<b>0.353</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.500 M	<b>3.89</b>	0.100 M	2.50 M	<b>5.97</b>	<b>0.123</b>	
	01/28/03	<b>3.33</b>	0.500 M	<b>1.01</b>	0.500 M	0.500 M	0.500 M	<b>0.500 M</b>	0.500 M	1.00 M	0.500 M	<b>6.96</b>	0.500 M	3.00 M	<b>10.6</b>	<b>0.566</b>	
	04/29/03	<b>4.00</b>	1.00 M	<b>1.18</b>	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	<b>9.45</b>	1.00 M	1.50 M	<b>10.9</b>	1.00 M	
	07/29/03	<b>2.23</b>	0.700 M	<b>0.254</b>	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.400 M	0.200 M	<b>4.77</b>	0.200 M	2.20 M	<b>5.09</b>	0.200 M	
	10/28/03	<b>6.26</b>	1.60 M	2.20 M	0.400 M	0.400 M	0.400 M	0.400 M	0.400 M	0.800 M	0.452	<b>10.1</b>	0.400 M	3.80 M	<b>18.0</b>	<b>1.29</b>	
	01/29/04	<b>3.36</b>	1.50 M	<b>1.00 M</b>	<b>1.00 M</b>	<b>1.00 M</b>	<b>1.00 M</b>	<b>1.00 M</b>	<b>1.00 M</b>	<b>2.00 M</b>	<b>1.00 M</b>	<b>7.12</b>	<b>1.00 M</b>	<b>3.00 M</b>	<b>7.44</b>	1.00 M	
	04/29/04	<b>1.98</b>	0.800 M	0.400 M	0.400 M	0.400 M	0.400 M	0.400 M	0.400 M	0.800 M	0.400 M	<b>4.05</b>	0.400 M	0.400 M	<b>4.44</b>	0.400 M	
	07/26/04	<b>3.11</b>	1.00 M	<b>1.00 M</b>	<b>1.00 M</b>	<b>1.00 M</b>	<b>1.00 M</b>	<b>1.00 M</b>	<b>1.00 M</b>	<b>2.00 M</b>	<b>1.00 M</b>	<b>6.40</b>	<b>1.00 M</b>	<b>4.60 M</b>	<b>5.93</b>	1.00 M	

**TABLE 3**  
**GROUNDWATER ANALYTICAL PAHs**  
 Kinder Morgan Liquid Terminals LLC  
 Linton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Aceanaphthalene ( $\mu\text{g/L}$ )	Aceanaphthylene ( $\mu\text{g/L}$ )	Anthracene ( $\mu\text{g/L}$ )	Benz(a)anthracene ( $\mu\text{g/L}$ )	Benz(a)pyrene ( $\mu\text{g/L}$ )	Benz(b)fluoranthene ( $\mu\text{g/L}$ )	Benz(ghi)perylene ( $\mu\text{g/L}$ )	Benz(k)fluoranthene ( $\mu\text{g/L}$ )	Chrysene ( $\mu\text{g/L}$ )	Dibenz(a,h)anthracene ( $\mu\text{g/L}$ )	Fluoranthene ( $\mu\text{g/L}$ )	Fluorene ( $\mu\text{g/L}$ )	Indeno(1,2,3-cd)pyrene ( $\mu\text{g/L}$ )	Naphthalene ( $\mu\text{g/L}$ )	Perylene ( $\mu\text{g/L}$ )	
MW-13	01/31/02	<b>1.62</b>	0.100 U	<b>0.16</b>	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 M	<b>3.23</b>	0.100 U	5.00 U	<b>2.61</b>	0.100 M	
DUP	01/31/02	<b>1.47</b>	0.100 U	<b>0.144</b>	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 M	<b>3.26</b>	0.100 U	2.00 U	<b>3.3</b>	0.100 M	
	04/25/02	<b>1.26</b>	0.100 U	<b>0.203</b>	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 M	<b>2.76</b>	0.100 U	2.00 U	<b>2.63</b>	0.100 M	
DUP	04/25/02	<b>1.36</b>	0.100 U	<b>0.138</b>	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 M	<b>2.73</b>	0.100 U	2.00 U	<b>2.74</b>	0.100 M	
	07/29/02	<b>0.858</b>	0.100 M	<b>0.172</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	<b>1.80</b>	0.100 M	0.100 M	<b>3.61</b>	<b>0.157</b>	
DUP	10/29/02	<b>1.31</b>	0.500 M	1.00 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	1.00 M	0.500 M	<b>2.75</b>	0.500 M	4.00 M	<b>4.91</b>	<b>0.515</b>
DUP	10/29/02	<b>0.802</b>	0.100 M	0.250 M	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 M	<b>1.68</b>	0.100 M	3.00 M	<b>2.42</b>	<b>0.121</b>	
	01/28/03	<b>0.588</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	<b>1.16</b>	0.100 M	1.20 M	<b>1.13</b>	0.100 M	
DUP	01/28/03	<b>0.710</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	<b>1.40</b>	0.100 M	1.30 M	<b>1.11</b>	0.100 M	
	04/29/03	<b>2.69</b>	2.50 M	<b>0.223</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	<b>5.57</b>	0.100 M	2.50 M	<b>2.94</b>	<b>0.120</b>	
	07/29/03	<b>0.808</b>	0.300 M	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.400 M	0.200 M	<b>1.69</b>	0.200 M	2.20 M	<b>2.86</b>	0.200 M	
	10/28/03	<b>0.843</b>	0.250 M	<b>0.112</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	<b>1.69</b>	0.100 M	1.45 M	<b>2.42</b>	0.100 M	
	01/29/04	<b>1.85</b>	0.500 M	<b>0.236</b>	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.400 M	0.200 M	<b>3.88</b>	0.200 M	4.40 M	<b>6.12</b>	0.200 M	
	04/28/04	<b>0.991</b>	0.300 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	<b>1.82</b>	0.100 M	4.00 M	<b>3.42</b>	0.100 M	
	07/26/04	2.50 M	2.50 M	<b>0.211</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	2.50 M	0.100 M	4.25 M	<b>3.73</b>	0.100 M	
DUP	07/26/04	2.50 M	2.50 M	<b>0.181</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	2.50 M	0.100 M	4.00 M	<b>3.48</b>	0.100 M	
MW-14	01/31/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 M	
	04/24/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	
	07/30/02	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	10/29/02	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	01/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	04/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	07/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	10/28/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	01/29/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	04/28/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	07/26/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	

**TABLE 3**  
**GROUNDWATER ANALYTICAL PAHs**  
 Kinder Morgan Liquid Terminals LLC  
 Linnton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Aceanaphthalene ( $\mu\text{g/L}$ )	Aceanaphthylene ( $\mu\text{g/L}$ )	Anthracene ( $\mu\text{g/L}$ )	Benz(a)anthracene ( $\mu\text{g/L}$ )	Benz(a)pyrene ( $\mu\text{g/L}$ )	Benz(b)fluoranthene ( $\mu\text{g/L}$ )	Benz(g <i>i</i> )phenylene ( $\mu\text{g/L}$ )	Benz(k)fluoranthene ( $\mu\text{g/L}$ )	Chrysene ( $\mu\text{g/L}$ )	Dibenz(a,b)anthracene ( $\mu\text{g/L}$ )	Fluoranthene ( $\mu\text{g/L}$ )	Fluorene ( $\mu\text{g/L}$ )	Indeno[1,2,3- <i>c,d</i> ]pyrene ( $\mu\text{g/L}$ )	Naphthalene ( $\mu\text{g/L}$ )	Phenanthrene ( $\mu\text{g/L}$ )	Pyrene ( $\mu\text{g/L}$ )
MW-15	01/31/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	
	04/24/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	
	07/30/02	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	10/29/02	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	01/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	04/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.137	0.100 M	0.100 M	
DUP	04/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	07/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
DUP	07/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	10/28/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	01/29/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	04/28/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	07/26/04	0.100 M	0.100 M	0.100 M	1.00 M	0.100 M	0.100 M	0.100 M	1.00 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	1.00 M	
MW-16	02/01/02	1.4	0.200 U	0.200 M	0.200 M	0.200 M	0.200 M	0.200 U	0.200 U	0.200 M	0.400 U	0.368	2.97	0.200 U	4.00 U	1.71	0.342
	04/25/02	1.16	0.100 U	0.256	0.256	0.218	0.208	0.169	0.183	0.273	0.200 U	0.642	2.84	0.138	1.50 U	2.49	0.626
	07/30/02	1.34	0.200 M	0.409	0.312	0.231	0.266	0.200 M	0.200 M	0.476	0.400 M	0.676	2.65	0.200 M	2.50 M	2.97	0.942
DUP	07/30/02	1.36	0.200 M	0.387	0.233	0.200 M	0.200 M	0.200 M	0.374	0.400 M	0.567	2.50	0.200 M	2.50 M	2.80	0.685	
	11/27/02*	4.12	1.00 U	2.41	1.27	1.47	2.35	1.00 U	1.00 U	3.15	2.00 U	2.99	11.9	1.00 U	7.40 U	13.5	3.27
	01/28/03	1.24	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.400 M	0.200 M	2.37	0.200 M	1.80 M	1.74	0.235
DUP	01/28/03	1.33	0.200 M	0.242	0.200 M	0.200 M	0.200 M	0.200 M	0.228	0.400 M	0.298	2.73	0.200 M	2.20 M	2.38	0.368	
	04/29/03	2.78	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	5.86	1.00 M	2.00 M	4.86	1.00 M	
	07/29/03	2.00	0.500 M	0.614	0.640	0.633	1.06	0.500 M	0.500 M	1.10	1.00 M	1.08	4.16	0.500 M	4.50 M	3.06	1.42
	10/28/03	1.53	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	1.00 M	0.500 M	3.05	0.500 M	1.75 M	2.17	0.500 M	
	04/28/04	1.47	1.00 M	1.00 M	2.00 M	1.00 M	2.50 M	1.00 M	2.50 M	2.00 M	1.00 M	3.22	1.00 M	4.00 M	2.17	1.00 M	
DUP	04/28/04	2.23	1.00 M	1.00 M	2.00 M	1.00 M	2.50 M	1.00 M	2.50 M	2.00 M	1.00 M	4.82	1.00 M	4.00 M	5.18	1.00 M	
	07/26/04	2.50 M	2.50 M	2.50 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	2.50 M	2.78	1.00 M	4.00 M	2.50 M	1.00 M

**TABLE 3**  
**GROUNDWATER ANALYTICAL PAHs**  
 Kinder Morgan Liquid Terminals LLC  
 Linton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Acenaphthene ( $\mu\text{g/L}$ )	Acenaphthyrene ( $\mu\text{g/L}$ )	Anthracene ( $\mu\text{g/L}$ )	Benz(a)anthracene ( $\mu\text{g/L}$ )	Benz(a)pyrene ( $\mu\text{g/L}$ )	Benz(b)fluoranthene ( $\mu\text{g/L}$ )	Benz(gi)perylene ( $\mu\text{g/L}$ )	Benz(h)fluoranthene ( $\mu\text{g/L}$ )	Chrysene ( $\mu\text{g/L}$ )	Dibenz(a,h)anthracene ( $\mu\text{g/L}$ )	Fluoranthene ( $\mu\text{g/L}$ )	Fluorene ( $\mu\text{g/L}$ )	Indeno(1,2,3-cd)pyrene ( $\mu\text{g/L}$ )	Naphthalene ( $\mu\text{g/L}$ )	Phenanthrene ( $\mu\text{g/L}$ )	Pyrene ( $\mu\text{g/L}$ )
MW-17	01/31/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.214	0.100 U	0.200 U	0.301	0.100 U	
	04/24/02	0.100 U	0.100 U	0.2100 M	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	0.187	0.100 U	
	07/30/02	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	1.00 M	0.100 M	0.100 M	0.100 M	
	10/30/02	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	1.00 M	0.100 M	0.100 M	0.100 M	
	01/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	04/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.300 M	0.100 M	0.100 M	0.100 M	
DUP	04/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.350 M	0.100 M	0.100 M	0.100 M	
	07/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.250 M	0.100 M	0.100 M	0.100 M	
DUP	07/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	
	10/28/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	01/29/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	04/28/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	07/26/04	0.100 M	0.100 M	0.100 M	1.00 M	0.100 M	0.100 M	0.100 M	0.100 M	1.00 M	0.200 M	0.100 M	0.100 M	0.200 M	0.100 M	1.00 M	
MW-18	04/25/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	
DUP	04/25/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	
	07/29/02	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	10/30/02	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	01/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	04/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	07/30/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	10/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	01/30/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.261	0.100 M	
	04/28/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	07/26/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	

**TABLE 3**  
**GROUNDWATER ANALYTICAL PAHs**  
 Kinder Morgan Liquid Terminals LLC  
 Linnton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Aceanaphthalene ( $\mu\text{g/L}$ )	Aceanaphthylene ( $\mu\text{g/L}$ )	Anthracene ( $\mu\text{g/L}$ )	Benz(a)anthracene ( $\mu\text{g/L}$ )	Benz(a)pyrene ( $\mu\text{g/L}$ )	Benz(b)fluoranthene ( $\mu\text{g/L}$ )	Benz(gi)perylene ( $\mu\text{g/L}$ )	Benz(k)fluoranthene ( $\mu\text{g/L}$ )	Chrysene ( $\mu\text{g/L}$ )	Dibenz(a,h)anthracene ( $\mu\text{g/L}$ )	Fluoranthene ( $\mu\text{g/L}$ )	Fluorene ( $\mu\text{g/L}$ )	Indeno(1,2,3-cd)pyrene ( $\mu\text{g/L}$ )	Naphthalene ( $\mu\text{g/L}$ )	Phenanthrene ( $\mu\text{g/L}$ )	Pyrene ( $\mu\text{g/L}$ )
MW-20	05/01/03	<b>11.7</b>	2.50 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	<b>0.368</b>	<b>6.24</b>	0.100 M	5.00 M	<b>0.820</b>	<b>0.495</b>	
	07/30/03	<b>21.8</b>	1.00 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	1.00 M	<b>0.979</b>	<b>9.18</b>	0.500 M	8.00 M	<b>3.81</b>	<b>1.31</b>	
MW-21	05/01/03	<b>6.08</b>	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	<b>6.13</b>	1.00 M	3.00 M	<b>2.59</b>	1.00 M	
	07/30/03	5.25 M	0.750 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	1.00 M	0.500 M	<b>4.69</b>	0.500 M	6.50 M	<b>2.23</b>	<b>0.704</b>	
MW-22	05/01/03	<b>2.67</b>	0.100 M	<b>0.168</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	<b>0.726</b>	<b>1.16</b>	0.100 M	1.70 M	<b>0.146</b>	<b>1.09</b>	
	07/30/03	<b>6.14</b>	0.300 M	<b>0.362</b>	<b>0.223</b>	<b>0.219</b>	0.200 M	0.200 M	0.200 M	<b>0.280</b>	0.400 M	<b>1.68</b>	<b>1.70</b>	0.200 M	<b>2.60</b> M	<b>2.22</b>	<b>2.31</b>
	10/29/03	<b>0.286</b>	0.100 M	0.150 M	<b>0.123</b>	<b>0.138</b>	0.100 M	<b>0.125</b>	0.100 M	<b>0.163</b>	0.200 M	<b>0.835</b>	<b>0.110</b>	0.100 M	0.400 M	0.150 M	<b>1.19</b>
	01/30/04	<b>1.90</b>	0.300 M	<b>0.278</b>	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.400 M	<b>0.936</b>	<b>1.78</b>	0.200 M	1.70 M	<b>1.26</b>	<b>1.28</b>
	04/29/04	<b>4.73</b>	0.300 M	<b>0.332</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	<b>1.16</b>	<b>1.75</b>	0.100 M	3.50 M	<b>3.09</b>	<b>1.41</b>	
	07/26/04	<b>6.24</b>	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	<b>1.46</b>	<b>1.67</b>	1.00 M	4.50 M	<b>2.69</b>	<b>1.47</b>	
MW-23	07/26/04	<b>1.15</b>	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	<b>1.95</b>	1.00 M	3.00 M	<b>1.20</b>	1.00 M	
MW-24	07/26/04	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	<b>1.55</b>	1.00 M	2.00 M	<b>1.35</b>	1.00 M	
RW-1	11/26/02*	30.0 U	25.0 U	<b>14.3</b>	<b>1.41</b>	1.00 U	<b>1.70</b>	1.00 U	1.00 U	<b>4.19</b>	2.00 U	<b>4.57</b>	130 U	1.00 U	<b>224</b>	<b>87.0</b>	<b>16.1</b>
RW-2	11/26/02*	<b>6.30</b>	0.100 U	<b>2.42</b>	0.100 U	0.100 U	0.100 U	0.100 U	<b>1.83</b>	2.00 U	<b>1.21</b>	<b>14.7</b>	1.00 U	<b>56.2</b>	<b>17.7</b>	<b>1.76</b>	
RW-3	11/26/02*	70.0 U	57.1 U	<b>19.5</b>	<b>2.48</b>	<b>2.02</b>	<b>1.43</b>	1.14 U	<b>1.45</b>	<b>5.45</b>	2.29 U	<b>6.02</b>	186 U	1.14 U	100 U	231	<b>18.8</b>

**NOTES:**

Polyaromatic Aromatic Compounds (PAHs) analyzed by USEPA Method 8270M-SM

$\mu\text{g/L}$  = micrograms per liter

J = Estimated Value

U = Analyte included in the analysis but not detected above laboratory method detection limits (MDLs)

M = Analyte included in the analysis but not detected above laboratory method reporting limits (MRLs)

**Bold Face Font** = Analyte detected above the MRLs

\* = Additional RI Sampling

**TABLE 4**  
**GROUNDWATER ANALYTICAL - TOTAL METALS**  
 Kinder Morgan Liquid Terminals LLC  
 Linnton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)	Zinc (mg/L)
MW-1	02/01/02	<b>0.0051</b>	<b>0.137J</b>	0.00100 U	<b>0.0019</b>	<b>0.0035</b>	0.00100 M	0.000200 U	0.00100 M	0.00100 U	<b>0.00863</b>
	11/26/02*	<b>0.00576</b>	<b>0.192</b>	0.00100 U	<b>0.00638</b>	<b>0.0165</b>	<b>0.00580</b>	0.000200 U	<b>0.00111</b>	0.00100 U	<b>0.0278</b>
	01/29/03	<b>0.00408</b>	<b>0.142</b>	0.00100 M	<b>0.00216</b>	<b>0.00657</b>	<b>0.00293</b>	0.000400 M	0.00100 M	0.00100 M	<b>0.0113</b>
	04/30/03	<b>0.00451</b>	<b>0.102</b>	0.00100 M	<b>0.00108</b>	0.00200 M	0.00100 M	0.000200 M	<b>0.00123</b>	0.00100 M	0.00500 M
MW-2	11/26/02*	<b>0.0410</b>	<b>0.119</b>	0.00100 U	<b>0.00132</b>	<b>0.00345</b>	<b>0.00497</b>	0.000200 U	0.00100 U	0.00100 U	<b>0.00770</b>
MW-3	11/26/02*	<b>0.0196</b>	<b>0.152</b>	0.00100 U	<b>0.00303</b>	<b>0.00599</b>	<b>0.00247</b>	0.000200 U	<b>0.00140</b>	0.00100 U	<b>0.0144</b>
MW-4	02/01/02	<b>0.00554</b>	<b>0.0916</b>	0.00100 U	0.00100 M	<b>0.00248</b>	0.00100 M	0.000200 U	<b>0.00113</b>	0.00100 U	0.00500 M
	04/25/02	NA	NA	NA	NA	NA	0.00100 U	NA	NA	NA	NA
	07/29/02	NA	NA	NA	NA	NA	0.00100 M	NA	NA	NA	NA
	10/30/02	NA	NA	NA	NA	NA	<b>0.00438</b>	NA	NA	NA	NA
DUP	10/30/02	NA	NA	NA	NA	NA	<b>0.00607</b>	NA	NA	NA	NA
	01/29/03	<b>0.00503</b>	<b>0.0791</b>	0.00100 M	<b>0.00102</b>	0.00200 M	0.00100 M	0.000200 M	<b>0.00100 M</b>	0.00100 M	0.00500 M
	04/30/03	<b>0.00511</b>	<b>0.0759</b>	0.00100 M	0.00100 M	0.00200 M	0.00100 M	0.000200 M	<b>0.00137</b>	0.00100 M	<b>0.00540</b>
	07/29/03	<b>0.0388</b>	<b>0.107</b>	0.00500 M	<b>0.00733</b>	<b>0.00679</b>	<b>0.00177</b>	0.000200 M	0.00500 M	0.00500 M	<b>0.0196</b>
	10/28/03	<b>0.0734</b>	<b>0.202</b>	0.00100 M	<b>0.0197</b>	<b>0.0219</b>	<b>0.00898</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0735</b>
	01/30/04	<b>0.0123</b>	<b>0.0950</b>	0.00100 M	<b>0.00132</b>	<b>0.00221</b>	0.00100 M	0.000200 M	<b>0.00117</b>	0.00100 M	<b>0.0168</b>
	04/29/04	<b>0.0301</b>	<b>0.109</b>	0.00100 M	<b>0.00616</b>	<b>0.00666</b>	<b>0.00242</b>	0.000200 M	<b>0.00199</b>	0.00100 M	<b>0.0226</b>
	07/26/04	<b>0.146</b>	<b>0.285</b>	0.00653M	<b>0.0345</b>	<b>0.0528</b>	<b>0.0156</b>	0.000200 M	<b>0.00192</b>	0.00100 M	<b>0.156</b>
MW-5	02/01/02	<b>0.00342</b>	<b>0.14</b>	0.00100 M	<b>0.00611</b>	<b>0.0161</b>	<b>0.00809</b>	0.000200 U	0.00100 M	0.00100 U	<b>0.0356</b>
	04/24/02	NA	NA	NA	NA	NA	<b>0.00978</b>	NA	NA	NA	NA
	07/30/02	NA	NA	NA	NA	NA	<b>0.00722</b>	NA	NA	NA	NA
	01/28/03	<b>0.00246</b>	<b>0.0801</b>	0.00100 M	<b>0.00316</b>	<b>0.00675</b>	<b>0.00475</b>	0.000800 M	0.00100 M	0.00100 M	<b>0.0222</b>
	04/30/03	<b>0.00195</b>	<b>0.0637</b>	0.00100 M	<b>0.00210</b>	<b>0.00662</b>	<b>0.00387</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0170</b>
	01/29/04	<b>0.00243</b>	<b>0.0855</b>	0.00100 M	<b>0.00218</b>	<b>0.00646</b>	<b>0.00463</b>	0.000200 M	<b>0.00110</b>	0.00100 M	<b>0.0243</b>
	04/28/04	<b>0.00188</b>	<b>0.0729</b>	0.00100 M	<b>0.00244</b>	<b>0.00560</b>	<b>0.00305</b>	0.000200 M	<b>0.00105</b>	0.00100 M	<b>0.0152</b>
MW-6	02/01/02	<b>0.0403</b>	<b>0.204</b>	<b>0.00189</b>	<b>0.00163</b>	<b>0.00689</b>	<b>0.00265</b>	0.000200 U	0.00100 M	0.00100 U	<b>0.0488</b>
	04/24/02	NA	NA	NA	NA	NA	<b>0.00143</b>	NA	NA	NA	NA
	01/29/03	<b>0.0465</b>	<b>0.182</b>	0.00100 M	<b>0.00253</b>	<b>0.00724</b>	<b>0.00651</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0617</b>
	04/29/03	<b>0.0391</b>	<b>0.0961</b>	0.00100 M	0.00100 M	<b>0.00200</b>	0.00100 M	0.000200 M	0.00100 M	0.00100 M	<b>0.00619</b>
	01/29/04	<b>0.0551</b>	<b>0.129</b>	0.00100 M	0.00100 M	<b>0.00430</b>	<b>0.00206</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0178</b>
DUP	01/29/04	<b>0.0570</b>	<b>0.137</b>	0.00100 M	0.00100 M	<b>0.00417</b>	<b>0.00203</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0156</b>
	04/28/04	<b>0.0587</b>	<b>0.109</b>	0.00100 M	<b>0.00106</b>	<b>0.00379</b>	<b>0.00137</b>	0.000200 M	<b>0.00234</b>	0.00100 M	<b>0.0130</b>

**TABLE 4**  
**GROUNDWATER ANALYTICAL - TOTAL METALS**  
 Kinder Morgan Liquid Terminals LLC  
 Linnton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)	Zinc (mg/L)
MW-7	01/31/02	<b>0.00339</b>	<b>0.0786</b>	0.00100 M	<b>0.00294</b>	<b>0.00673</b>	<b>0.00214</b>	0.000200 U	0.00100 M	0.00100 U	<b>0.014</b>
	04/24/02	NA	NA	NA	NA	NA	<b>0.00240</b>	NA	NA	NA	NA
	07/29/02	NA	NA	NA	NA	NA	<b>0.00735</b>	NA	NA	NA	NA
	10/29/02	NA	NA	NA	NA	NA	<b>0.0346</b>	NA	NA	NA	NA
	01/28/03	<b>0.00161</b>	<b>0.0574</b>	0.00100 M	0.00100 M	<b>0.00318</b>	<b>0.00106</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.00763</b>
	04/29/03	<b>0.00171</b>	<b>0.0629</b>	0.00100 M	<b>0.00174</b>	<b>0.00396</b>	<b>0.00219</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0135</b>
	07/29/03	0.00500 M	<b>0.0735</b>	0.00500 M	<b>0.00676</b>	<b>0.00675</b>	<b>0.00223</b>	0.000200 M	0.00500 M	0.00500 M	<b>0.0166</b>
	10/28/03	<b>0.00180</b>	<b>0.0516</b>	0.00100 M	0.00100 M	<b>0.00292</b>	0.00100 M	0.000200 M	0.00100 M	0.00100 M	<b>0.00595</b>
DUP	10/28/03	<b>0.00578</b>	<b>0.185</b>	0.00100 M	<b>0.00873</b>	<b>0.0199</b>	<b>0.00980</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0532</b>
	01/29/04	<b>0.00238</b>	<b>0.0769</b>	0.00100 M	<b>0.00286</b>	<b>0.00563</b>	<b>0.00249</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0201</b>
	04/28/04	<b>0.00219</b>	<b>0.105</b>	0.00100 M	<b>0.00347</b>	<b>0.00848</b>	<b>0.00411</b>	0.000200 M	<b>0.00100</b>	0.00100 M	<b>0.0214</b>
	07/26/04	<b>0.00705</b>	<b>0.176</b>	0.00664M	<b>0.00895</b>	<b>0.0221</b>	<b>0.00779</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0554</b>
MW-8	02/01/02	<b>0.00884</b>	<b>0.0396</b>	0.00100 M	0.00100 M	0.00100 M	<b>0.01160</b>	0.000200 U	0.00100 M	0.00100 U	0.00500 M
	04/25/02	NA	NA	NA	NA	NA	<b>0.00761</b>	NA	NA	NA	NA
	07/29/02	NA	NA	NA	NA	NA	<b>0.00510</b>	NA	NA	NA	NA
	10/30/02	NA	NA	NA	NA	NA	<b>0.00495</b>	NA	NA	NA	NA
	01/29/03	<b>0.00530</b>	<b>0.0348</b>	0.00100 M	0.00100 M	0.00200 M	<b>0.0147</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.00979</b>
	04/30/03	<b>0.00560</b>	<b>0.0265</b>	0.00100 M	0.00100 M	0.00200 M	<b>0.00900</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0121</b>
	07/29/03	<b>0.00922</b>	<b>0.106</b>	0.00500 M	0.00500 M	0.00500 M	<b>0.00355</b>	0.000200 M	0.00500 M	0.00500 M	<b>0.0172</b>
	10/28/03	<b>0.00284</b>	<b>0.0502</b>	0.00100 M	<b>0.00156</b>	<b>0.00318</b>	<b>0.00373</b>	0.000200 M	<b>0.00104</b>	0.00100 M	<b>0.00704</b>
	01/30/04	<b>0.00333</b>	<b>0.0318</b>	0.00100 M	0.00100 M	0.00200 M	<b>0.0109</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.00743</b>
	04/29/04	<b>0.00204</b>	<b>0.0414</b>	0.00100 M	<b>0.00214</b>	<b>0.00742</b>	<b>0.00864</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0144</b>
	07/26/04	<b>0.00184</b>	<b>0.0500</b>	0.00100 M	<b>0.00169</b>	<b>0.00317</b>	<b>0.00461</b>	0.000200 M	<b>0.00113</b>	0.00100 M	<b>0.0110</b>
MW-9	02/01/02	<b>0.0384</b>	<b>0.288</b>	0.00100 M	<b>0.0228</b>	<b>0.048</b>	<b>0.02390</b>	0.000200 U	<b>0.00133</b>	0.00100 M	<b>0.106</b>
	04/25/02	NA	NA	NA	NA	NA	<b>0.00102</b>	NA	NA	NA	NA
	07/29/02	NA	NA	NA	NA	NA	<b>0.03840</b>	NA	NA	NA	NA
	10/30/02	NA	NA	NA	NA	NA	<b>0.0802</b>	NA	NA	NA	NA
	01/29/03	<b>0.0308</b>	<b>0.0806</b>	0.00100 M	<b>0.00265</b>	<b>0.00462</b>	<b>0.00273</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0162</b>
	04/30/03	<b>0.0352</b>	<b>0.0889</b>	0.00100 M	<b>0.00306</b>	<b>0.00530</b>	<b>0.00390</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0199</b>
	07/30/03	<b>0.0570</b>	<b>0.351</b>	0.00500 M	<b>0.0359</b>	<b>0.0645</b>	<b>0.0351</b>	0.000200 M	0.00500 M	0.00500 M	<b>0.177</b>
	10/29/03	<b>0.0455</b>	<b>0.352</b>	0.00100 M	<b>0.0284</b>	<b>0.0616</b>	<b>0.0339</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.154</b>
	01/30/04	<b>0.0527</b>	<b>0.143</b>	0.00100 M	<b>0.00629</b>	<b>0.0118</b>	<b>0.00820</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0601</b>
	04/29/04	<b>0.0468</b>	<b>0.0915</b>	0.00100 M	<b>0.00374</b>	<b>0.00723</b>	<b>0.00392</b>	0.000200 M	<b>0.00169</b>	0.00100 M	<b>0.0284</b>
	07/26/04	<b>0.0650</b>	<b>0.278</b>	0.00624M	<b>0.00772</b>	<b>0.0147</b>	<b>0.00981</b>	0.000200 M	<b>0.00192</b>	0.00100 M	<b>0.0708</b>
MW-10	02/01/02	<b>0.00576</b>	<b>0.0204</b>	0.00100 U	<b>0.00149</b>	0.00200 M	<b>0.00308</b>	0.000200 U	0.00100 M	0.00100 U	<b>0.00563</b>
DUP	02/01/02	<b>0.00465</b>	<b>0.0128</b>	0.00100 U	<b>0.00103</b>	0.00200 M	<b>0.00226</b>	0.000200 U	0.00100 U	0.00100 U	0.00500 M
	04/25/02	NA	NA	NA	NA	NA	<b>0.00648</b>	NA	NA	NA	NA
	11/27/02*	<b>0.0187</b>	<b>0.553</b>	<b>0.00286</b>	<b>0.107</b>	<b>0.167</b>	<b>0.153</b>	0.000200 U	<b>0.00208</b>	<b>0.00122</b>	<b>0.465</b>
	04/30/03	<b>0.00672</b>	<b>0.0600</b>	0.00100 M	<b>0.00661</b>	<b>0.0116</b>	<b>0.0477</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0421</b>
	07/30/03	0.00500 M	<b>0.0254</b>	0.00500 M	<b>0.00520</b>	0.00500 M	0.0123	0.000200 M	0.00500 M	0.00500 M	<b>0.0155</b>
	10/29/03	<b>0.00496</b>	<b>0.0273</b>	0.00100 M	0.00100 M	0.00200 M	<b>0.00941</b>	0.000200 M	0.00100 M	0.00100 M	0.00500 M

**TABLE 4**  
**GROUNDWATER ANALYTICAL - TOTAL METALS**  
 Kinder Morgan Liquid Terminals LLC  
 Linnton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)	Zinc (mg/L)
MW-12	01/31/02	<b>0.0594</b>	<b>0.0804</b>	0.00100 U	<b>0.00138</b>	0.00200 M	<b>0.00175</b>	0.000200 U	0.00100 M	0.00100 U	0.00500 M
	04/25/02	NA	NA	NA	NA	NA	<b>0.00444</b>	NA	NA	NA	NA
	07/29/02	NA	NA	NA	NA	NA	<b>0.00860</b>	NA	NA	NA	NA
	DUP 07/29/02	NA	NA	NA	NA	NA	<b>0.00768</b>	NA	NA	NA	NA
	10/29/02	NA	NA	NA	NA	NA	<b>0.0208</b>	NA	NA	NA	NA
	01/28/03	<b>0.0576</b>	<b>0.0886</b>	0.00100 M	<b>0.00337</b>	<b>0.00396</b>	<b>0.00618</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0115</b>
	04/29/03	<b>0.0624</b>	<b>0.0836</b>	0.00100 M	<b>0.00219</b>	<b>0.00300</b>	<b>0.00496</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0144</b>
	07/29/03	<b>0.0636</b>	<b>0.0476</b>	0.00500 M	0.00500 M	0.00500 M	<b>0.00187</b>	0.000200 M	0.00500 M	0.00500 M	0.00500 M
	10/28/03	<b>0.0704</b>	<b>0.130</b>	0.00100 M	<b>0.00992</b>	<b>0.0132</b>	<b>0.0188</b>	0.000200 M	0.00200 M	0.00100 M	<b>0.0318</b>
MW-13	01/29/04	<b>0.0736</b>	<b>0.0938</b>	0.00100 M	<b>0.00358</b>	<b>0.00456</b>	<b>0.00918</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0172</b>
	04/29/04	<b>0.0778</b>	<b>0.0683</b>	0.00100 M	<b>0.00136</b>	0.00200 M	<b>0.00192</b>	0.000200 M	0.00100 M	0.00100 M	0.00500 M
	07/26/04	<b>0.0698</b>	<b>0.101</b>	0.00100 M	<b>0.00449</b>	<b>0.00645</b>	<b>0.00694</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0170</b>
	DUP 01/31/02	<b>0.0551</b>	<b>0.254</b>	0.00100 U	<b>0.0156</b>	0.0259	<b>0.0138</b>	0.000200 U	0.00100 M	0.00100 U	<b>0.0648</b>
	DUP 04/25/02	<b>0.0543</b>	<b>0.266</b>	0.00100 U	<b>0.0177</b>	<b>0.0279</b>	<b>0.0145</b>	0.000200 U	0.00100 M	0.00100 M	<b>0.0764</b>
	DUP 04/25/02	NA	NA	NA	NA	NA	<b>0.0109</b>	NA	NA	NA	NA
	DUP 07/29/02	NA	NA	NA	NA	NA	<b>0.0150</b>	NA	NA	NA	NA
	DUP 10/29/02	NA	NA	NA	NA	NA	<b>0.4170</b>	NA	NA	NA	NA
	DUP 10/29/02	NA	NA	NA	NA	NA	<b>2.59</b>	NA	NA	NA	NA
MW-14	DUP 01/28/03	<b>0.0608</b>	<b>0.0951</b>	0.00100 M	<b>0.00280</b>	<b>0.00422</b>	<b>0.00451</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0233</b>
	DUP 01/28/03	<b>0.0608</b>	<b>0.0949</b>	0.00100 M	<b>0.00299</b>	<b>0.00361</b>	<b>0.00409</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0133</b>
	DUP 04/29/03	<b>0.0511</b>	<b>0.214</b>	0.00100 M	<b>0.0112</b>	<b>0.0174</b>	<b>0.0160</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.195</b>
	DUP 07/29/03	<b>0.0397</b>	<b>0.0919</b>	0.00500 M	<b>0.00510</b>	0.00500 M	<b>0.00221</b>	0.000200 M	0.00500 M	0.00500 M	<b>0.0220</b>
	DUP 10/28/03	<b>0.105</b>	<b>0.721</b>	0.00100 M	<b>0.0586</b>	<b>0.115</b>	<b>0.0725</b>	0.000200 M	<b>0.00113</b>	0.00100 M	<b>0.268</b>
	DUP 01/29/04	<b>0.0720</b>	<b>0.216</b>	0.00100 M	<b>0.00948</b>	<b>0.0140</b>	<b>0.0139</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.237</b>
	DUP 04/28/04	<b>0.0838</b>	<b>0.272</b>	0.00100 M	<b>0.0134</b>	<b>0.0257</b>	<b>0.0226</b>	0.000200 M	<b>0.00125</b>	0.00100 M	<b>0.0781</b>
	DUP 07/28/04	<b>0.0895</b>	<b>0.483</b>	0.00637M	<b>0.0458</b>	<b>0.0771</b>	<b>0.0459</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.201</b>
	DUP 07/28/04	<b>0.0685</b>	<b>0.353</b>	0.00648M	<b>0.0306</b>	<b>0.0516</b>	<b>0.0296</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.138</b>
MW-14	01/31/02	<b>0.0165</b>	<b>0.456</b>	0.00100 M	<b>0.0402</b>	<b>0.078</b>	<b>0.0332</b>	0.000200 U	0.00100 M	0.00100 M	<b>0.199</b>
	04/24/02	NA	NA	NA	NA	NA	<b>0.0140</b>	NA	NA	NA	NA
	07/30/02	NA	NA	NA	NA	NA	<b>0.2520</b>	NA	NA	NA	NA
	10/29/02	NA	NA	NA	NA	NA	<b>0.103</b>	NA	NA	NA	NA
	01/29/03	<b>0.0149</b>	<b>0.341</b>	0.00100 M	<b>0.0364</b>	<b>0.0604</b>	<b>0.0269</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.168</b>
	04/29/03	<b>0.00954</b>	<b>0.328</b>	0.00100 M	<b>0.0228</b>	<b>0.0468</b>	<b>0.0231</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.186</b>
	07/29/03	0.00500 M	<b>0.0485</b>	0.00500 M	0.00500 M	<b>0.00520</b>	0.00100 M	0.000200 M	0.00500 M	0.00500 M	<b>0.0148</b>
	10/28/03	<b>0.00451</b>	<b>0.130</b>	0.00100 M	<b>0.00703</b>	<b>0.0150</b>	<b>0.00590</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0382</b>
	01/29/04	<b>0.00456</b>	<b>0.162</b>	0.00100 M	<b>0.00888</b>	<b>0.0180</b>	<b>0.00797</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0495</b>
	04/28/04	<b>0.0146</b>	<b>0.349</b>	0.00100 M	<b>0.0294</b>	<b>0.0566</b>	<b>0.0269</b>	0.000200 M	<b>0.00173</b>	0.00100 M	<b>0.146</b>
	07/26/04	<b>0.00836</b>	<b>0.998</b>	0.00635M	<b>0.00866</b>	<b>0.0327</b>	<b>0.00606</b>	<b>0.000238</b>	<b>0.00103</b>	0.00100M	<b>0.0954</b>

**TABLE 4**  
**GROUNDWATER ANALYTICAL - TOTAL METALS**  
 Kinder Morgan Liquid Terminals LLC  
 Linnton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)	Zinc (mg/L)
MW-15	01/31/02	<b>0.00951</b>	<b>0.262</b>	0.00100 M	<b>0.0224</b>	<b>0.0355</b>	<b>0.0133</b>	0.000200 U	<b>0.0011</b>	0.00100 U	<b>0.0936</b>
	04/24/02	NA	NA	NA	NA	NA	<b>0.0754</b>	NA	NA	NA	NA
	07/30/02	NA	NA	NA	NA	NA	<b>0.2270</b>	NA	NA	NA	NA
	10/29/02	NA	NA	NA	NA	NA	<b>0.0190</b>	NA	NA	NA	NA
	01/29/03	<b>0.0113</b>	<b>0.299</b>	0.00100 M	<b>0.0329</b>	<b>0.0484</b>	<b>0.0197</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.142</b>
	04/29/03	<b>0.00359</b>	<b>0.0986</b>	0.00100 M	<b>0.00965</b>	<b>0.0109</b>	<b>0.00529</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0331</b>
DUP	04/29/03	<b>0.00322</b>	<b>0.0842</b>	0.00100 M	<b>0.00894</b>	<b>0.00905</b>	<b>0.00409</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0288</b>
	07/29/03	<b>0.0361</b>	<b>1.34</b>	0.0500 M	<b>0.0858</b>	<b>0.145</b>	<b>0.0798</b>	0.000200 M	0.0500 M	0.0500 M	<b>0.553</b>
DUP	07/29/03	<b>0.0239</b>	<b>0.765</b>	0.00500 M	<b>0.0538</b>	<b>0.0971</b>	<b>0.0492</b>	0.000200 M	0.00500 M	0.00500 M	<b>0.274</b>
	10/28/03	<b>0.0135</b>	<b>1.57</b>	0.00100 M	<b>0.0466</b>	<b>0.0792</b>	<b>0.0155</b>	0.000200 M	<b>0.00246</b>	0.00100 M	<b>0.302</b>
	01/29/04	<b>0.00322</b>	<b>0.0942</b>	0.00100 M	<b>0.00874</b>	<b>0.00883</b>	<b>0.00374</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0288</b>
	04/28/04	<b>0.00343</b>	<b>0.279</b>	0.00100 M	<b>0.0115</b>	<b>0.0187</b>	<b>0.00460</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0558</b>
	07/26/04	<b>0.00810</b>	<b>0.186</b>	0.00100 M	<b>0.0147</b>	<b>0.0286</b>	<b>0.0112</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0790</b>
MW-16	02/01/02	<b>0.116</b>	<b>0.354</b>	0.00100 M	<b>0.0465</b>	<b>0.0508</b>	<b>0.0312</b>	0.000200 U	0.00100 M	0.00100 M	<b>0.144</b>
	04/25/02	NA	NA	NA	NA	NA	<b>0.00998</b>	NA	NA	NA	NA
	07/30/02	NA	NA	NA	NA	NA	<b>0.120</b>	NA	NA	NA	NA
DUP	07/30/02	NA	NA	NA	NA	NA	<b>0.126</b>	NA	NA	NA	NA
	11/27/02*	<b>0.120</b>	<b>3.69</b>	0.00100 U	<b>0.610</b>	<b>0.546</b>	<b>0.323</b>	<b>0.000265</b>	0.00100 U	0.00100 U	<b>1.40</b>
	01/28/03	<b>0.0908</b>	<b>0.104</b>	0.00100 M	<b>0.00704</b>	<b>0.00652</b>	<b>0.00702</b>	0.000400 M	0.00100 M	0.00100 M	<b>0.0216</b>
DUP	01/28/03	<b>0.0891</b>	<b>0.135</b>	0.00100 M	<b>0.0121</b>	<b>0.0116</b>	<b>0.0106</b>	0.000400 M	0.00100 M	0.00100 M	<b>0.0387</b>
	04/29/03	<b>0.0895</b>	<b>0.0885</b>	0.00100 M	<b>0.00698</b>	<b>0.00764</b>	<b>0.00828</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0247</b>
	07/29/03	<b>0.116</b>	<b>5.83</b>	0.100 M	<b>0.718</b>	<b>0.764</b>	<b>0.466</b>	<b>0.000854</b>	0.100 M	0.100 M	<b>2.18</b>
	10/28/03	<b>0.112</b>	<b>0.397</b>	0.00100 M	<b>0.0498</b>	<b>0.0511</b>	<b>0.0355</b>	0.000200 U	0.00100 M	0.00100 M	<b>0.130</b>
	04/28/04	<b>0.106</b>	<b>0.0896</b>	0.00100 M	<b>0.00673</b>	<b>0.00614</b>	<b>0.00712</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0175</b>
DUP	04/28/04	<b>0.0994</b>	<b>0.116</b>	0.00100 M	<b>0.00811</b>	<b>0.00796</b>	<b>0.0102</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0248</b>
	07/26/04	<b>0.120</b>	<b>0.336</b>	0.00638M	<b>0.0166</b>	<b>0.0139</b>	<b>0.0152</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0690</b>
MW-17	01/31/02	<b>0.00574</b>	<b>0.209</b>	0.00100 U	<b>0.00604</b>	<b>0.00954</b>	<b>0.00374</b>	0.000200 U	0.00100 U	0.00100 U	<b>0.0242</b>
	04/24/02	NA	NA	NA	NA	NA	<b>0.0106</b>	NA	NA	NA	NA
	07/30/02	NA	NA	NA	NA	NA	<b>0.0801</b>	NA	NA	NA	NA
	10/30/02	NA	NA	NA	NA	NA	<b>0.115</b>	NA	NA	NA	NA
	01/29/03	<b>0.00858</b>	<b>0.161</b>	0.00100 M	<b>0.0116</b>	<b>0.0177</b>	<b>0.0106</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0558</b>
	04/29/03	<b>0.0109</b>	<b>0.133</b>	0.00100 M	<b>0.00694</b>	<b>0.0110</b>	<b>0.00589</b>	0.000200 M	<b>0.00117</b>	0.00100 M	<b>0.0358</b>
DUP	04/29/03	<b>0.0119</b>	<b>0.148</b>	0.00100 M	<b>0.00738</b>	<b>0.0120</b>	<b>0.00679</b>	0.000200 M	<b>0.00124</b>	0.00100 M	<b>0.0417</b>
	07/29/03	<b>0.0338</b>	<b>0.477</b>	0.00500 M	<b>0.0461</b>	<b>0.0865</b>	<b>0.0465</b>	0.000200 M	0.00500 M	0.00500 M	<b>0.218</b>
DUP	07/29/03	<b>0.0213</b>	<b>0.203</b>	0.00500 M	<b>0.0170</b>	<b>0.0311</b>	<b>0.0139</b>	0.000200 M	0.00500 M	0.00500 M	<b>0.0733</b>
	10/28/03	<b>0.0308</b>	<b>0.820</b>	<b>0.00359</b>	<b>0.0802</b>	<b>0.164</b>	<b>0.0757</b>	0.000200 M	<b>0.00141</b>	0.00100 M	<b>0.401</b>
	01/29/04	<b>0.00429</b>	<b>0.125</b>	0.00100 M	<b>0.00510</b>	<b>0.00895</b>	<b>0.00484</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0295</b>
	04/28/04	<b>0.0136</b>	<b>0.216</b>	0.00100 M	<b>0.0137</b>	<b>0.0257</b>	<b>0.0123</b>	0.000200 M	<b>0.00129</b>	0.00100 M	<b>0.0736</b>
	07/28/04	<b>0.0235</b>	<b>0.268</b>	0.00100 M	<b>0.0213</b>	<b>0.0391</b>	<b>0.0178</b>	0.000200 M	<b>0.00128</b>	0.00100 M	<b>0.106</b>

**TABLE 4**  
**GROUNDWATER ANALYTICAL - TOTAL METALS**  
 Kinder Morgan Liquid Terminals LLC  
 Linnton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)	Zinc (mg/L)
MW-18	04/25/02	NA	NA	NA	NA	NA	<b>0.0362</b>	NA	NA	NA	NA
DUP	04/25/02	NA	NA	NA	NA	NA	<b>0.0294</b>	NA	NA	NA	NA
	07/29/02	NA	NA	NA	NA	NA	<b>0.0094</b>	NA	NA	NA	NA
	10/30/02	NA	NA	NA	NA	NA	<b>0.0460</b>	NA	NA	NA	NA
	01/29/03	<b>0.00255</b>	<b>0.0930</b>	0.00100 M	<b>0.00340</b>	<b>0.00593</b>	<b>0.00269</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0178</b>
	04/29/03	<b>0.00935</b>	<b>0.329</b>	0.00100 M	<b>0.0248</b>	<b>0.0363</b>	<b>0.0230</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.118</b>
	07/30/03	<b>0.0386</b>	<b>0.758</b>	0.00500 M	<b>0.0734</b>	<b>0.121</b>	<b>0.0655</b>	0.000200 M	0.00500 M	0.00500 M	<b>0.342</b>
	10/29/03	<b>0.0348</b>	<b>0.781</b>	0.00100 M	<b>0.0787</b>	<b>0.132</b>	<b>0.0694</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.364</b>
	01/30/04	<b>0.00295</b>	<b>0.159</b>	0.00100 M	<b>0.00540</b>	<b>0.00916</b>	<b>0.00384</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0284</b>
	04/28/04	<b>0.00482</b>	<b>0.112</b>	0.00100 M	<b>0.00702</b>	<b>0.00950</b>	<b>0.00487</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0287</b>
	07/26/04	<b>0.00359</b>	<b>0.227</b>	0.00100 M	<b>0.00532</b>	<b>0.0124</b>	<b>0.00328</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0380</b>
MW-20	05/01/03	<b>0.00887</b>	<b>0.0290</b>	0.00100 M	<b>0.00156</b>	<b>0.00213</b>	<b>0.00230</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.00834</b>
	07/30/03	<b>0.0149</b>	<b>0.107</b>	0.00500 M	<b>0.0131</b>	<b>0.0228</b>	<b>0.00896</b>	0.000200 M	0.00500 M	0.00500 M	<b>0.0442</b>
MW-21	05/01/03	<b>0.00571</b>	<b>0.108</b>	0.00100 M	<b>0.0123</b>	<b>0.0237</b>	<b>0.0297</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0641</b>
	07/30/03	<b>0.0119</b>	<b>0.120</b>	0.00500 M	<b>0.0134</b>	<b>0.0621</b>	<b>0.0269</b>	0.000200 M	0.00500 M	0.00500 M	<b>0.0467</b>
MW-22	05/01/03	<b>0.00377</b>	<b>0.0148</b>	0.00100 M	0.00100 M	0.00200 M	0.00100 M	0.000200 M	0.00100 M	0.00100 M	0.00500 M
	07/30/03	<b>0.0148</b>	<b>0.114</b>	0.00500 M	<b>0.0143</b>	<b>0.0195</b>	<b>0.0121</b>	0.000200 M	0.00500 M	0.00500 M	<b>0.0493</b>
	10/29/03	<b>0.00751</b>	<b>0.270</b>	0.00100 M	<b>0.0172</b>	<b>0.0354</b>	<b>0.0193</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0924</b>
	01/30/04	0.00100 M	<b>0.0116</b>	0.00100 M	<b>0.00105</b>	0.00200 M	0.00100 M	0.000200 M	0.00100 M	0.00100 M	<b>0.00575</b>
	04/29/04	<b>0.00861</b>	<b>0.0244</b>	0.00100 M	<b>0.00126</b>	<b>0.0245</b>	<b>0.00119</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0136</b>
	07/26/04	<b>0.0137</b>	<b>0.164</b>	0.00631 M	<b>0.0147</b>	<b>0.0311</b>	<b>0.0143</b>	0.000200 M	<b>0.00114</b>	0.00100 M	<b>0.0785</b>
MW-23	07/26/04	<b>0.0559</b>	<b>0.551</b>	0.00663 M	<b>0.0442</b>	<b>0.0498</b>	<b>0.0165</b>	0.000200 M	<b>0.00156</b>	0.00100 M	<b>0.152</b>
MW-24	07/26/04	<b>0.118</b>	<b>2.64</b>	0.0318 M	<b>0.394</b>	<b>0.508</b>	<b>0.341</b>	<b>0.000243</b>	<b>0.00805</b>	0.00500 M	<b>1.31</b>
RW-1	11/26/02*	<b>0.0168</b>	<b>0.183</b>	0.00100 U	<b>0.00852</b>	<b>0.01990</b>	<b>0.00798</b>	0.000200 U	0.00100 U	0.00100 U	<b>0.0868</b>
RW-2	11/26/02*	<b>0.00760</b>	<b>0.206</b>	<b>0.00385</b>	<b>0.0104</b>	<b>0.0226</b>	<b>0.0105</b>	0.000200 U	0.00100 U	0.00100 U	<b>0.0795</b>
RW-3	11/26/02*	<b>0.00444</b>	<b>0.132</b>	0.00100 U	<b>0.00276</b>	<b>0.00711</b>	<b>0.00270</b>	0.000200 U	<b>0.00133</b>	0.00100 U	<b>0.0129</b>

**NOTES:**

Total Metals analyzed by USEPA Method 6000/7000 Series Method

mg/l = Milligrams per liter

NA = Not Analyzed

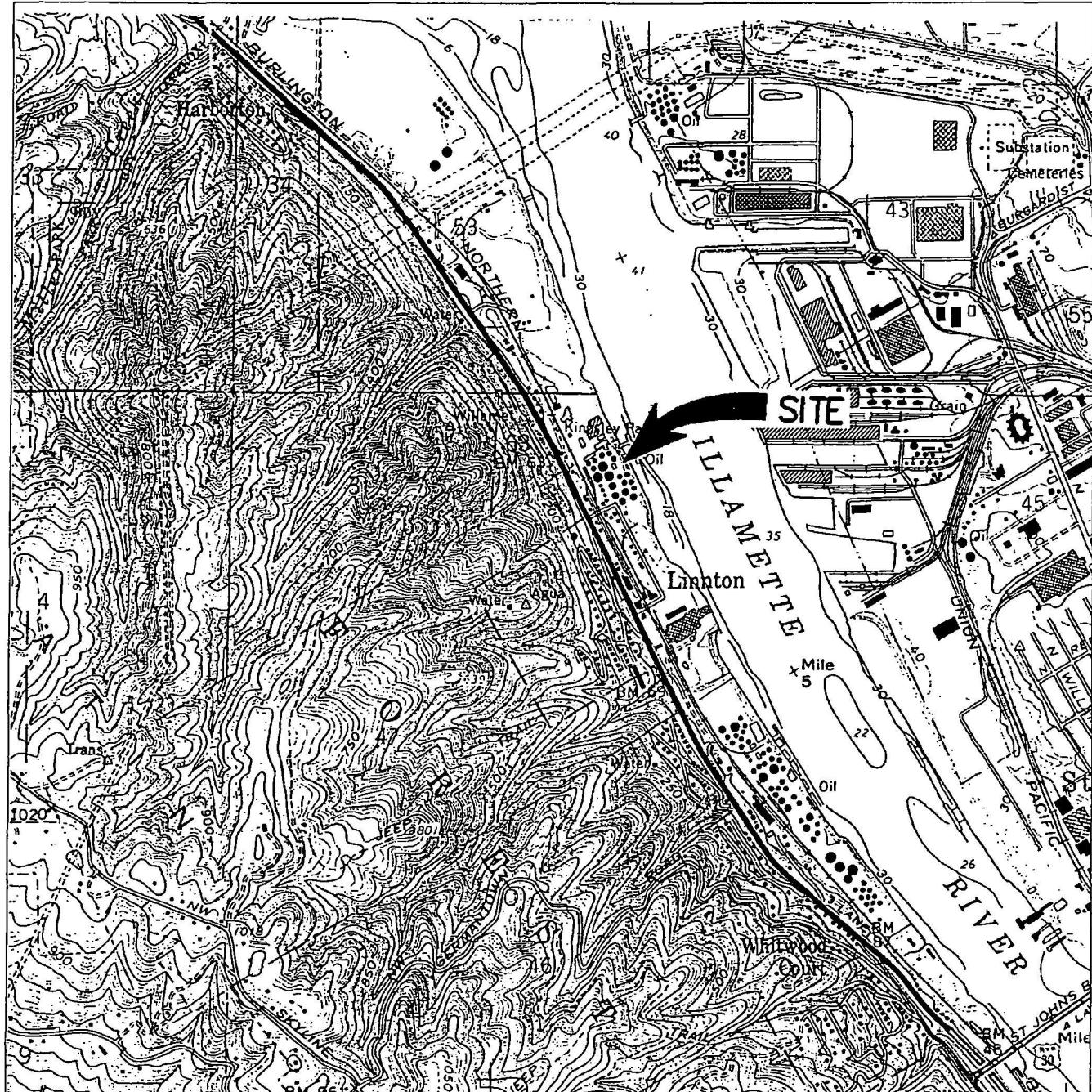
J = Estimated Value

U = Analyte included in the analysis but not detected above laboratory method detection limits (MDLs)

M = Analyte included in the analysis but not detected above laboratory method reporting limits (MRLs)

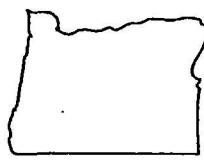
**Bold Face Font** = Analyte detected above the MRLs

\* = Additional RI Sampling



REFERENCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP  
LINNTON, OREGON, 1961  
PHOTOREVISED 1984

SCALE 1 : 25,000



North

QUADRANGLE LOCATION

**FIGURE 1**

**SITE LOCATION MAP**

**Kinder Morgan Liquid Terminals LLC - Linnton Terminal**  
11400 NW St. Helens Road  
Portland, Oregon

PROJECT NO. PTKM-001-3.0001	DRAWN BY CRF
FILE NO.	PREPARED BY CRF 11/13/03
REVISION NO.	REVIEWED BY



